Dettlinger, Carl

From: Glenda Wehrli <gwehrli@metalico.com>

Sent: Friday, March 17, 2023 12:44 PM

To: AQ Permits

Subject: Metalico Pittsburgh, Inc. Synthetic Minor Permit Application (Email 1 of 4)

Attachments: 2023-03-16 Metalico Pittsburgh Permit Application Cover Letter.pdf; Metalico_Synthetic

Minor_Calcs_3.8.2023.xlsx; Metalico Pittsburgh ACHD Synthetic Minor Permit BMP Plan Rev

03-2023.pdf

Warning! This email was sent from an external source. Please be sure you recognize the sender and use caution when clicking on links and/or opening attachments.

Per the request of the County, Metalico Pittsburgh is submitting the Synthetic Minor Permit Application via email.

The file size is too large to send in one email; therefore, I will send four.

Email 1 of 4 contains following information:

- Cover Letter
- Calculations Spreadsheet
- BMP Plan

Metalico Pittsburgh is requesting the ability to review the drafted permit prior to going to public comment.

Note: The Installation Permit Fee of \$2,500 will be sent to the County; postmarked today.

Sincerely,

Glenda Wehrli

Director of Environmental Compliance and Employee Safety

Cell: (330) 651-3482 | Office: (412) 771-7000 Ext. 5033

Email: gwehrli@metalico.com



March 16, 2023

Allegheny County Health Department Air Quality Division 301 39th Street, Building #7 Pittsburgh, PA 15201-1811 3100 Grand Avenue Pittsburgh, PA 15225 Phone: (412) 771-7000 Fax: (412) 771-3340

RE: Metalico Pittsburgh, Inc.

Synthetic Minor Air Quality Permit Application

Metalico Pittsburgh, Inc. (Metalico) is submitting this permit application to apply for a synthetic minor air permit for the operation of emission sources at our existing metal scrap shredding facility, located in Neville Township, Allegheny County, Pennsylvania. The facility currently operates under Minor Source Operating Permit #0692, authorized by the Allegheny County Health Department (ACHD) on August 21, 2007.

This application is being submitted in response to the Administrative Compliance Order of Consent U.S. EPA Docket No. CAA-03-2023-0016DA issued by the United States Environmental Protection Agency (USEPA) on December 9, 2022, and signed on January 19, 2023. The application follows the limitations and conditions, specified in the Consent Order, to ensure the facility will not exceed emissions of 50 tons per year of Volatile Compounds (VOCs).

The enclosed application contains the required application forms and support material. The required documents and associated application fee of \$2,500 in the form of a check made payable to the ACHD Air Pollution Control Fund are provided in the appendices to this application as outlined below:

Appendix A: ACHD Air Quality Permit Application Form

• Appendix B: Compliance Review Form

Appendix C: Detailed Emission Calculations

• Appendix D: Technical Support Documents

• Appendix E: Process Flow Diagram

• Appendix F: Area Map

Appendix G: USEPA Consent Order

Appendix H: Application Fee

If you have any questions or comments about the attached information or have additional information requirements, please feel free to contact me directly by phone at (412) 771-7000 ext. 5033, or by email at gwehrli@metalico.com.

Sincerely,

Glenda K. Wehrli

Director of Environmental Compliance & Employee Safety

JK.us

ACHD Synthetic Minor Permit Best Management Practices (BMP) Plan

Metalico Pittsburgh

3100 Grand Avenue Pittsburgh, Pennsylvania 15225

Prepared For

Metalico Pittsburgh

3100 Grand Avenue Pittsburgh, Pennsylvania 15225

March 2023



Metalico Pittsburgh 3100 Grand Avenue Pittsburgh, Pennsylvania 15225

Best Management Practices (BMP) Plan

March 2023

Prepared For

Metalico Pittsburgh 3100 Grand Avenue Pittsburgh, Pennsylvania 15225

Prepared By

Barton & Loguidice, D.P.C. 443 Electronics Parkway Liverpool, New York 13088 Figure 2

Site Layout

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1.0 FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Name and Location

The Metalico Pittsburgh is a scrap recycling facility (herein referred to as the "site" or "facility") located in the Town of Neville in Allegheny County, Pennsylvania (see Figure 1 – Site Location Map). The facility is accessible from Grand Avenue.

Facility Address and Telephone:

Metalico Pittsburgh Inc. 3100 Grand Avenue Pittsburgh, Pennsylvania 15225

Pittsburgn, Pennsylvania 15225

(412) 771-7000 Ext. 5033

Contact: Glenda Wehrli, Director of Environmental Compliance and Employee Safety

1.2 Facility Owner/Operator

The facility is owned and operated by Metalico Pittsburgh Inc. The main offices are located at the following address:

Owner/Operator Address:

Metalico Pittsburgh, Inc. 3100 Grand Avenue Pittsburgh, Pennsylvania 15225

Phone: (412) 771-7000

1.3 Facility Contacts and Responsibilities

The facility personnel responsible for overseeing the implementation of this BMP Plan are as follows:

Title	Name
General Manager	Joe Pardee
Director of Environmental Compliance & Employee Safety	Glenda Wehrli
Shredder Operations Manager	Kyle Michlovic
Ferrous Operations Manager	Ronald Glass
Non-Ferrous Operations Manager	Alan Hightower
Maintenance Supervisor	Mark Diamond

The General Manager of the Facility is responsible for overseeing business operations, environmental compliance, and workplace safety. The Director of Environmental Compliance & Employee Safety manages organizational compliance with local, state, and federal environmental, health and safety regulations. The Operation Managers are responsible for the management of labor, productivity, quality control, safety measures, and environmental impact. The Maintenance Manager oversees the maintenance of all equipment involved with production, including the sweeper and watering equipment/vehicles.

1.4 Facility Description

1.4.1 Facility Operations

In general, operations at the Metalico Pittsburgh facility are typical of a scrap metal processing and recycling facility. The facility specializes in the recycling of ferrous and non-ferrous metals. The facility receives, sorts, stores, and processes (shearing, baling, shredding, etc.) various scrap metals. The scrap processing portion of the facility is normally staffed during the hours of 7:00 a.m. to 4:30 p.m. Monday through Friday, and 7:00 a.m. to 12:00 p.m. on Saturday.

1.4.2 Site Description

The facility is situated on a parcel located in a commercial/industrial area of the Town of Neville in Allegheny County, Pennsylvania (see Figure 1). The site is bordered to the east by Mr. John portable toilets, to the west by Triad Metals, and to the north by the Ohio River. The facility is accessible from Grand Avenue. The general facility layout and process areas are shown in Figure 2.

The site also includes developed areas for site and facility access, vehicle parking, equipment fueling and storage/processing of scrap metal. A limited amount of undeveloped scrub vegetation covered area is located at the north end of the site. The main building houses an office area, maintenance area, scrap receiving area, and scrap storage areas.

2.0 BEST MANAGEMENT PRACTICES (BMPS)

The following techniques are considered best management practices (BMPs) to prevent or mitigate potential airborne matter from the facility operations and are to be followed as part of normal procedures.

The BMP Plan will be modified whenever there is a change at the facility or as needed.

2.1 Visible Emissions

To properly eliminate and control particulate emissions throughout the facility, sweeping and watering of the roadways and driveways is conducted at the facility. These procedures are conducted regularly, except for on days in which enough snow, ice, or precipitation has occurred that is sufficient for that day to ensure compliance. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use. The following operations/procedures are in place:

• Shredder's Sweeper: Sweepers must be operated according to the manufacturers' recommended procedures. While sweeping, the operator will drive 5 mph. Prior to sweeping, brushes will be inspected to ensure they are functional. Brushes will be replaced when the bristle length is less than 3 inches. Any hotspot areas will be noted for extra sweeping. The minimum frequency of sweeping is as follows:

Entrance/Parking Lot: Bi-monthly

o Main Yard: Bi-weekly

Roadway Back at River: Weekly

o Around Maintenance Garage: Weekly

- Metals' Sweeper: Operating procedures are the same as the shredder's sweeper. Any
 hotspot areas will be noted for extra sweeping. The Entrance/Parking lot is to be swept
 at a minimum bi-weekly frequency.
- Site Watering Truck: Watering trucks must be operated according to the manufacturers' recommended procedures. Trucks will be driven at 5 mph. Prior to watering, hoses will be inspected to ensure they are functional. Any hotspot areas will be noted for extra watering. The minimum frequency of watering is as follows:

o Main Yard: As Needed

o Roadway Back at River: As Needed

Around Maintenance Garage: As Needed

 At the start and end of operation, each operator will fill out the water truck or sweeper truck log which includes the name of operator, date, start and stop time, and any equipment issues.

2.2 Inbound Material Inspection and Material Handling and Storage

Non-conforming materials, hazardous or dangerous materials, and unwanted materials are all potentials for damaging equipment, impacting finished product quality, and causing unwanted reactions or fires. While the facility accepts a wide variety of recyclable scarp metals, the shredding operation has strict policies on what materials are unacceptable for the shredder.

Unacceptable Incoming Materials for Shredding						
Fuel tanks containing liquid and/or vapor	Acetylene, oxygen, propane cylinders, closed containers, or sealed units of any kind					
Batteries or battery pieces	Capacitors					
Lead cable ends	Transformers					
White goods, air conditioners, or refrigeration equipment with freon (CFCs and HCFCs)	Fluorescent light ballasts containing PCBs					
Liquids or sludge of any kind	Radioactive material					
Sealed drums, barrels, pails, or buckets	Mercury switches					
Microwave ovens/microwaves	Oil filters					

The following procedures are currently implemented at the facility:

- Cars are prepared for the Shredding Process (including, but not limited to, draining of fluids, removing of batteries, mercury switches, etc.).
- Free flowing used oil and other fluids are collected and placed in a labeled storage containment that are materially compatible and non-leaking.
- Disposal and/or recycling of all fluids complies with the RCRA.
- If a spill is to occur, it must be cleaned up immediately upon detection using spill kits found in the inspection and/or car prep area. All spills and leaks must be reported to the Operations Manager and EHS Department.

2.3 Shredder Operational Limitations

The Facility imposes the following operational limitations on the shredder:

• A maximum hours of operation of 10 hours in any calendar day, or 8 hours per day during Air Quality Action Days, as determined by ACHD. An Air Quality Action Day is defined as: a day for which a forecast, for Allegheny County, has been issued by the Pennsylvania Department of Environmental Protection, the Allegheny County Health Department or the Southwest Pennsylvania Air Quality Partnership indicating that ambient concentrations of ozone, particulate matter, carbon monoxide, sulfur dioxide, or nitrogen dioxide might reach unhealthful levels or exceed the National Ambient Air Quality Standard. Air Quality Action Day alerts from ACHD can be requested at www.alleghenycounty.us/alerts.

- A maximum shred feed rate of 120 tons per hour.
- A maximum throughput rate of 240,000 tons per year of shred feed.
- A maximum annual hourly operating limit such that the Facility will not exceed a PTE of 50 tons per year of VOCs, inclusive of all other VOC emitting sources located at the Facility.
- An emission factor of 0.39 pounds VOCs per ton of shred feed (lb VOC/ton) will be used for all VOC emissions calculations related to VOC emissions generated by the Facility Shredder.
- The hours of operation per day in which the Shredder operates at an amperage draw
 equal to or greater than 200 amps will be recorded using the Shredder's existing or a
 functionally equivalent amperage monitoring system. These recorded hours define the
 number of hours the Shredder is emitting VOCs, in order to calculate annual VOC
 emissions.
 - The monitoring system will collect data before, during, and after the Shredder's operation at an amperage draw equal to or greater than 200 amps for a minimum period of 12 hours per day.
 - The total number of hours per day in which the amperage is equal to or greater than 200 amps will be reported to ACHD in a manner and frequency proposed by the permittee for approval by ACHD.
 - Data from the amperage monitoring system shall be maintained on a central server for access by the Facility to provide to ACHD or EPA upon request.

2.4 Fire Prevention

The facility has a Fire Prevention Plan (FPP) in place to control and reduce the possibility of fire and to specify the type of equipment to use in case of fire. All employees at the facility receive annual fire training. Additionally, a water line was installed in 2022 to ensure the site has enough water to fight fires. Infrared cameras are used daily to scan the area and scrap piles in order to identify any "hotspots" or areas where a reaction with incompatible materials may exist, and to reduce the potential for fires. Further:

- Material is staged for fire suppression, and material is wet down as needed at the end of the day shift.
- Nightly thermal camera surveys are conducted on each pile of material to identify
 hotspots. If a hotspot is detected, the Shredder Operations Manager is notified
 immediately. The hotspot and surrounding area are wet and the material in question
 segregated. The Shredder Operations Manager is responsible for ensuring all piles are
 inspected before the site is left vacant.
- Equipment and vehicles are parked a safe distance away from stored scrap material.

Figure 1

Site Location

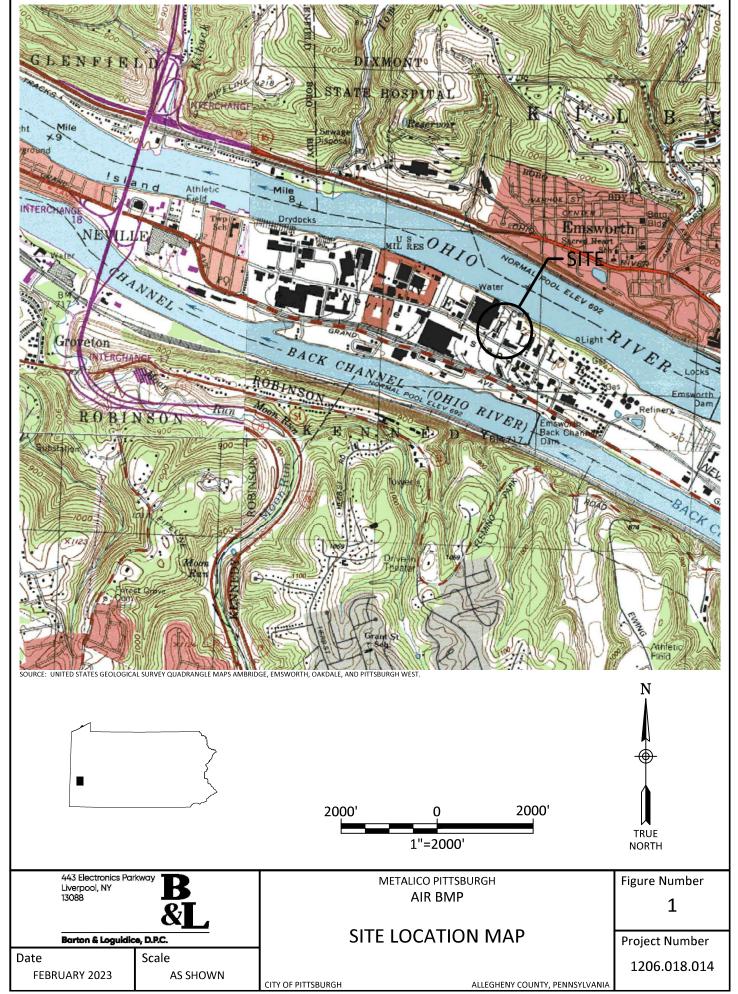


Figure 2

Site Layout

The experience to listen The power to Solve





Air Quality Permit Application Package Checklist

To ensure timely processing of your permit application, the following checklist is provided as a list of items required for a complete application. If at any time you have questions about your application, please call 412-578-8115 or the permitting engineer.

Your permit application package should include:

X	A cover letter with a description of the installation (for installation permits) or process description (for operating permits.)
X	Completed Permit Application Form (https://www.alleghenycounty.us/uploadedFiles/Allegheny_Home/Health_Department/Programs/Air_Quality/AQpermitappl-2009.pdf)
	BACT analysis (IP applications only) Not Applicable
	Air Toxics Review (IP applications only) Not Applicable
X	Calculations; including live spreadsheet where applicable
X	Process flow diagrams
X	Any relevant manufacturer specifications or guarantees
X	Any appendices containing additional information such as Sources of Minor Significance
X	Completed Compliance Review Form (https://alleghenycounty.us/uploadedFiles/Allegheny_Home/Health_Department/Programs/Air_Quality/comrev.pdf)
X	Application fee
X	Brief description of changes, such as equipment removed or added, since the previous permit (OP renewal applications only)

Please note that if any of these items are missing or incomplete, the permit application may be deemed "incomplete" and will result in a delay of processing.

Allegheny County Health Department Air Quality

301 39th Street Building # 7
Pittsburgh, PA 15201-1811
Phone (412)578-8115 Fax (412) 578-8144



Prepared for:

Metalico Pittsburgh, Inc.

Submitted to:

Allegheny County Health Department Division for Air Quality

Prepared by:

Ramboll US Consulting, Inc.

Date:

March 2023

METALICO PITTSBURGH, INC. SYNTHETIC MINOR AIR QUALITY PERMIT APPLICATION

Ramboll US Consulting, Inc. 1600 Parkwood Circle Suite 310 Atlanta, GA 30339 USA T +1 770 874 5010 www.ramboll.com



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4.	COMPLIANCE WITH FEDERAL PERMITTING REQUIREMENTS	5
3.1	Emissions Summary	4
3.	EMISSIONS CALCULATION	4
2.	PROCESS DESCRIPTION	3
1.	INTRODUCTION	3

TABLES

Table 3-1. Summary of Total Facility Emissions

APPENDICES

Appendix A - ACHD Air Quality Permit Application Form

Appendix B - Compliance Review Form

Appendix C - Emission Calculations

Appendix D – Technical Support Documents

Appendix E - Process Flow Diagram

Appendix F - Area Map

Appendix G - USEPA Consent Order

Appendix H - Application Fee

1. INTRODUCTION

Metalico Pittsburgh, Inc. (Metalico) is submitting this permit application to apply for a synthetic minor air permit for the operation of emission sources at our existing metal scrap shredding facility, located in Neville Township, Allegheny County, Pennsylvania. The facility currently operates under a Minor Source Operating Permit #0692, authorized by the Allegheny County Health Department (ACHD) on August 21, 2007.

This application is being submitted in response to the Administrative Compliance Order of Consent, U.S. EPA Docket No. CAA-03-2023-0016DA issued by the United States Environmental Protection Agency (USEPA) on December 9, 2022 and signed on January 19, 2023. Metalico is submitting the application by March 19, 2023, in accordance with Condition #42 and #43 of the issued Consent Order.

The emissions limitations and other operating criteria for this facility, as specified under the issued Consent Order included in **Appendix G**, are as follows:

- Maximum hours of operation of 10 hours in any calendar day, or eight hours per day during Air Quality Action Days as determined by ACHD.
- Maximum shred feed rate of 120 ton/hour.
- Maximum throughput rate of 240,000 tons per year of shred feed.
- Maximum annual hourly operating limit, such that the Facility will not exceed a PTE of 50 TPY VOCs, inclusive of all other VOC emitting sources located at the facility.
- An emission factor of 0.39 lb VOC per ton of shred feed (lb VOC/ton) shall be used for all VOC emissions calculations related to VOC emissions generated by the Facility Shredder.
- Record of hours of operation, as described in Consent Order: Condition #42(f), (f)(i), (g),
 (h).
- Document and records shredder feed, as described in Consent Order: Condition #42(i).
- Prepare a best management plan (BMP), as described in Consent Order: Condition #42(j),
 (j)(i iv) and submit annually to ACHD.

The emissions for this facility is within these operational limitations described in the Consent Order and as summarized in **Table 3-1.**

2. PROCESS DESCRIPTION

The raw materials (metal scraps) are fed to the shredder by an infeed conveyor. Water is added to the shredder from the water injection system to control dust in the shredder and to dampen the shredded product to eliminate dust emissions at the transition points in the process. The amount of water added is controlled by the shredder motor load which generate a signal to control the rate of water injection into the mill. The shredded product is fed to the first transfer conveyor, which feeds the magnet separation system. Non-ferrous material is sent to the non-ferrous conveyor. Ferrous material is sent to the second transfer conveyor. From the second transfer conveyor, the ferrous material is sent to the cyclone Z-Box product cleaning, which will remove any non-metallic and non-ferrous material which made it past the magnet separation system and send it back to the non-ferrous conveyor. The ferrous material is sent to the sorting conveyors and stacker for ferrous finished goods inventory.

The non-ferrous conveyor will then transfer to the batch feeder. From the batch feeder, the non-ferrous material is fed by the trommel feeder conveyor to the trommel. From the trommel, the non-ferrous material is separated by: medium size material, undersize material, and oversize material. The oversized material is transferred to an oversize non-ferrous bin. The undersize size material is fed by the undersize material conveyor to the Bivi-Tec Screen. Material which is screened out of the Bivi-Tec Screen than is transferred to a non-metallic bin. Material with the small fraction Steinart ECS is transferred to the first non-ferrous product conveyor, or the first non-metallic conveyor. The medium size material is fed by the medium size material conveyor to the middle fraction Steinart ECS. Material with the middle fraction Steinart ECS is transferred to the first non-ferrous product conveyor, or the first non-metallic conveyor. The non-ferrous material is fed to the second non-ferrous product conveyor, and sent to the non-ferrous finished goods inventory. From the first non-metallic conveyor, the material is fed to the ISS and transferred to the non-metallic bin or stainless product bin.

A process flow diagram is included in Appendix E.

3. EMISSIONS CALCULATION

3.1 Emissions Summary

The maximum air pollutant emission rates proposed for the facility are presented in **Table 3-1**. Detailed emission calculations for the equipment and operations are presented in **Appendix C**.

Table 3-1: Total Facility-wide Emissions in Tons Per Year (tpy)

Source	voc	NOx	со	PM	PM ₁₀	PM _{2.5}	SO ₂	HAPs
Clean Burn unit (C001)	0.01	0.23	0.03	0.83	0.72	0.72	1.55	
Scrap Metal Processor (P001)	46.80			13.06	13.06	13.06		1.33
Storage Tanks	0.01							
Road Dust				28.94	6.23	1.35		
Fugitive Emissions: Torch Cutting				0.24	0.24	0.24		
Fugitive Emissions: Parts Washer	0.12							
Total	46.94	0.23	0.03	43.07	20.24	15.36	1.55	1.33

¹ At the maximum shred feed rate of 120 tph, 240,000 tons/year correlates to 2,000 hours/year shredder operating hours. Metalico shall use the annual operating hours as a basis to ensure that the total quantity of VOC emissions at the Facility, including those from the Shredder and all other Facility sources, does not exceed the 50 TPY VOC.

4. COMPLIANCE WITH FEDERAL PERMITTING REQUIREMENTS

Metalico is a minor stationary source under the New Source Review (NSR) requirements of the Federal Clean Air Act. The facility is located in Allegheny County, Pennsylvania, which is listed as in attainment or unclassifiable with the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants, except for: 2012 PM-2.5 standard (classified as moderate non-attainment), 2010 sulfur dioxide standard (classified as moderate non-attainment), and 2008 ozone standard (classified as marginal non-attainment). For non-attainment pollutants, which include Particulate Matter 2.5 (PM_{2.5}), Sulfur Dioxide (SO₂), Volatile Organic Compounds (VOCs) and Nitrogen Oxides (NOx), which are precursors to ozone, Non-attainment New Source Review (NNSR) is not triggered since the PTE for PM_{2.5}, SO₂, VOCs and NOx do not exceed the threshold for either moderate or marginal non-attainment pollutants.

Metal scrap processing operations are not a listed source category under 40 CFR §52.21(b)(1); therefore, the facility would be considered a major source if attainment criteria pollutant emissions are greater than or equal to the major source threshold of 250 tons per year (tpy). The maximum annual emission rates for the attainment criteria pollutants are less than 250 tpy. Therefore, the facility will be a minor source as defined in the rules, and Prevention of Significant Deterioration (PSD) review is not triggered.

Furthermore, Title V permitting requirements are also not triggered since the Title V major source thresholds are not exceeded (100 tpy for each criteria pollutant, except VOC which is 50 tpy, 25 tpy for total hazardous air pollutants (HAPs), and 10 tpy for any single HAP). The facility is considered an area source of HAPs.

Metalico Pittsburgh, Inc. Synthetic Minor Air Permit Application

APPENDIX A ACHD Air Quality Permit Application Form



ALLEGHENY COUNTY HEALTH DEPARTMENT AIR QUALITY PROGRAM

301 39TH STREET, CLACK HEALTH CENTER BUILDING 7, PITTSBURGH, PA 15201-1811
PHONE 412.578.8103 • 24-HR: 412.687.ACHD (2243)
WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT

Air Quality Permit Application Form

SECTION 1. PERMIT DE	SCRIPT	ION								
Check Type								F	OR ACHD	USE ONLY
Installation			Operating	-	This permit application is					
Initial			for a:		Permi	t Number:				
New Construction		_		Major Sou	rco			Comp	leteness:	
Major Modification Minor Modification		-		Minor Sou			-	Comp		
Reactivation				Synthetic		urce		Admii	nistration:	
Temp.Source/Multi.Loc				(See Secti			X			
New Permit								Engin	eering:	
Renewa				Amount e	nclosed:					
Adm. Permit Amend.				\$				Assig	ned to:	
Other (Explain Below)			X							***
Brief Description of Per response to the Administrative USEPA on December	rative Co r 9, 2022	mplia and	nce Order signed on	of Consent L	J.S. EPA I	Docket N	No. C	AA-03-	2023-0016	DA issued by
SECTION 2. APPLICAN	IT INFO	RMA1	rion							
Applicant Type Code		Appli	cant Name	e or Registere	ed Fictitiou	is Name	Э	F	OR ACHD	USE ONLY
01		Meta	lico Pittsbu	urgh, Inc.						
First Name		М. І.	Last Name							
Glenda		K	Wehrli							
Title Director of Envir	onmenta	i Com	pliance &	Employee Sa	afety			Relati	ionship of	Applicant to
Mailing Address (Street a	# and Na	ame o	r P. O. Bo	∢#, Box #, RF	R #, RD # <u>;</u>			Perm	itted A	ctivity. See opropriate code.
City			State	Zip Code + E	xtension					
Pittsburgh				15225						
Telephone 412-771-7 ext. 5033			E-mail	l g	wehrli@	metalico.co	om			
SECTION 3. SITE INFO	RMATIC	N	L .>L							
Facility Site Name							Fe	ederal T	ax Identifica	ation Number
Metalico Pittsburgh, Inc. 26-2452344										
Address (Street #, Stree	t Prefix,	Street	t Name, St	reet Type, St	reet Suffix	() * <u>P. O.</u>	BO	<u> </u>	IOT ACCE	PTABLE*
3100 Grand Avenue										
Municipality State Zip Code + Extension										
Neville Township			PA	15225						
	-771-700 5033	00	Telep	hone (Eve.)	330-65	1-3482			FAX	

Company:	Metalico Pittsburgh, Inc.	Page:	Application – 1	Permit Application Rev. 2021-12-15

of the plant. UT	N: Please provi M coordinates a ,000 scale maps	re preferable	sal Transverse to latitude and	Mercator (longitude	UTM) coordinates and can be deter	or the exact latitude and longitude mined from US Geological Survey			
fugitive emission identify the plan	n location E001	, F002, etc. he map. Inclı	Identify roads	as paved o	or unbaved, mark	6002, S003, etc., and number each king all parking lots (see Form E). fiers that will allow the Department			
UTM North	4484473 Or	Latitude _	Deg	rees	Minutes	Seconds NORTH			
UTM East	<u>575577</u> Or	Longitude _	Degrees		Minutes _	Seconds WEST			
PLA	ANT PROPERTY	17.26	_ Acres or _		Square feet				
BUI	ILDING AREA		Acres or _	197,061	Square feet				
GIVE TRAVE	L DIRECTIONS	FROM DOWI	NTOWN PITTS	BURGH:					
Fleming Park	Bridge onto Nevi	ille Island Roa	ad. Follow Nev	ille Island F	Rocks Bridge; tak Road until Grand / sburgh, PA 15225	e 51 N to Fleming Park Bridge; take Avenue; turn right onto Grand 5.			
DESCRIPTIO	N OF BUSINES	s							
GIVE	A BRIEF DESCF	RIPTION OF	BUSINESS OF	R ACTIVITY	CARRIED OUT	AT THIS LOCATION:			
shred	y performs scrap ding. The proces party consumers	sed scrap me	etal is sorted in	to ferrous r	ation including ba netal, non-ferrous	ling, shearing, breaking, and metal, and non-metallic for sale to			
PRIN	CIPAL PRODUC	T(S):							
Ferro	us and non-ferro	us metal scra	р						
APPR I f emp	APPROXIMATE NUMBER OF EMPLOYEES: 75 If employment is seasonal, give the typical peak employment and indicate what season.								
If there is mo	INDUSTRIAL CL re than one activ des in descending	vity at this loc	ation, provide	DE FOR TH the Standa	IS LOCATION: rd Industrial Cod	e (SIC) for the principal activity, and			
Prima	ary SIC Code:	50	Primary activi	ty: Wh	olesale trade – d	urable goods			
Seco	ndary SIC Code:		Secondary activity:	Nahara sa					
Tertia	ary SIC Code:		Tertiary activi	ty:		****			
Company:	Metalico Pittsbui	rgh, Inc. Pa	age: <i>A</i>	Application ·	-2	Permit Application Rev. 2021-12-15			

SECTION 3. (cont.)

SECTION 4. ENVIRONMENTAL CONTACT							
First Name	M. I.	Last Name					
Glenda K Wehrli							
Title Director of Environmental Compliance & Employee Safety							
Telephone 412-771-7000 ext. 5033		FAX					
Mailing Address (Street # and Name or P. O. 3100 Grand Avenue	Box #, Box #,	RR #, RD #)					
City	Sta	te Zip Code + Extension					
Pittsburgh	P/	15225					
E-mail gwehrli@metalico.com							

Company: Metalico Pittsburgh, Inc.

Page:

Application - 3

Permit Application Rev. 2021-12-15

SECT	5: APPLICABLE REQUIREMENTS
	tion, briefly describe all applicable federal, state, or local air rules or requirements pertaining to the facility or any part
of the	illy.
"Appli	e requirements" can come from any of the following:
(i.	Regulations that have been promulgated or approved by the EPA under the Clean Air Act or the regulations adopted under the Clean Air Act through rulemaking at the time of issuance but have future-effective compliance
	dates.
(i	A regulation under Allegheny County Article XXI (Air Pollution Control), including those incorporated by reference.

- A term or condition of any installation or operating permits issued pursuant to the County air quality regulations. (iii.) A standard or other requirement under Section 111 of the Clean Air Act, including subsection (d). (iv.)
- A standard or other requirement under Section 112 of the Clean Air Act (42 U.S.C.A.

 7412), including any (v.) requirement concerning accident prevention under subsection (r) (7).
- A standard or other requirement of the acid rain program under Title IV of the Clean Air Act (42 U.S.C.A. 🗆 🗆 7641 (vi.) - 7651o) or the regulations promulgated under the Clean Air Act.
- Requirements established under Section 504(b) or Section 114(a)(3) of the Clean Air Act (42 U.S.C.A. (vii.) 7414(a)(3).
- A standard or other requirement governing solid waste incineration, under Section 129 of the Clean Air Act (42 (viii.) U.S.C.A. □ 7429).
- A standard or other requirement for consumer and commercial products, under Section 183(e) of the Clean Air (ix.) Act (42 U.S.C.A. 37511b(e)).
- A standard or other requirement for tank vessels, under Section 183(f) of the Clean Air Act (42 U.S.C.A. \square 7511b). (x.)
- A standard or other requirement of the program to control air pollution from outer continental shelf sources, under (xi.) Section 328 of the Clean Air Act (42 U.S.C.A. □ 7627).
- A standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of (xii.) the Clean Air Act (42 U.S.C.A. D 7671-7671q), unless the Administrator of the EPA has determined that such requirements need not be contained in a Title V permit.
- A national ambient air quality standard or increment or visibility requirement under Title I, Part C of the Clean Air (xiii.) Act (42 U.S.C.A. 🗆 🗆 7470-77491), but only as it would apply to temporary sources permitted pursuant to Section 504(e) of the CAA (42 U.S.C.A. □ 7661d).

Include any regulations that are final, but may require controls to be put on, or lower emission rates to come into effect in the future. Be as specific as necessary. For example, if you have boilers rated at 10, 70, and 100 MMBtu, then for sulfur dioxide emissions list Article XXI 2104.03 a.1, 2, and 3. When you complete the Forms for specific operations, you will be requested to repeat those requirements unique to that unit. Include general emission requirements, such as 2104.04, odor emissions, if they apply.

If there are any limitations on source operation affecting emissions or any work practice standards, provide details in this section. Include supporting documents, if necessary. If the facility is claiming any exemptions to a part of an applicable requirements stated above or any other requirements, clearly identify what section. Copy this page as needed, and attach these additional pages to this section.

An example of how Section 5.A might be completed:

<u>Emission</u>	
<u>Regulation</u>	<u>Description</u>
Art. XXI 🗆 2104.02.a.2	PM 0.40 #/106 BTU
Art. XXI 🗆 2104.03.a.1	SO₂ 1.0 #/10 ⁶ BTU
Art. XXI □ 2104.01.a	Opacity □20% for ≤3 min./hr. or 60% at no time
	Low NOx Burners w/overfire air

_		_	A 10 45 A	D
Company:	Metalico Pittsburgh, Inc.	Page:	Application – 4	Permit Application Rev. 2021-12-15

List and summarize all applicable federal, state, or local air rules or requirements pertaining to the facility or any part of the facility. Also describe any regulated work practice standards that affect air emissions. Include any regulations that are in place, but have delayed deadlines for compliance. (COPY THIS PAGE AS NEEDED)

REGULATION	DESCRIPTION
Article XXI 2101.01	General
Article XXI 2102.01	Permit Generally
Article XXI 2103.01	Operating Permits
Article XXI 2104.01	Pollutant Emission Standards
Article XXI 2105.01	Source Emission and Operating Standards
Article XXI 2106.01	Air Pollution Episodes
Article XXI 2108.01	Reporting, Testing, & Monitoring
Article XXI 2109.01	Enforcement

SECTION 6: METHOD OF DEMONSTRATING COMPLIANCE

List the method of demonstrating compliance with each of the emission standards (these may become conditions of the Operating Permit):

A. Compliance Method/ Monitoring Devices:

EMISSION UNIT#	POLLUTANT	REFERENCE TEST METHOD OR COMPLIANCE METHOD OR MONITORING DEVICE	FREQUENCY / DURATION OF SAMPLING
P001	Particulate Matter	Interlock on water injection system, which shuts down infeed conveyor if water injection pump fails.	N/A
P001	VOC	Shredder amperage must be monitored by an amperage monitoring system.	When shredder is equal to or greater than 200 amps, for a minimum period of 12 hours/day.
P001	Visible Emissions (Opacity)	Weekly visible emissions (Method 22) inspections will be conducted when shredder is in operation.	Weekly

B. Record keeping and Reporting:

1. List what parameter will be recorded and the frequency of recording:

PARAMETER	FREQUENCY
Shredder will not operate with water injection system inlock in place.	N/A
The total number of hours per day in which the shredder amperage is equal to or greater than 200 amps must be recorded for a minimum period of 12 hours/day.	Daily

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Amount of water usage (in gallons) of Smart Water Injection System	Daily	
Tons of scrap metal shredded	Daily	

2. Describe what is to be reported and the frequency of reporting? (Reports must be submitted at least every six (6) months)

DESCRIPTION	FREQUENCY
Hours of Operation	Daily
Tons Shredded	Daily
Water usage (in gallons) of Smart Water Injection System	Daily
Hours per day shredder amperage is equal to or greater than 200 amps for a minimum period of 12 hours/day.	Daily

3.	Beginning	reporting	date:	_ ′_	/
----	-----------	-----------	-------	------	---

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A sour regulat	ce may apply for and receive an Operating Permit if one or more emission units are out of compliance with a tion, provided that an adequate plan is in place to bring the unit(s) into compliance.
A	1. At the time of this permit application is your source in compliance with all applicable requirements, and do you expect your source to remain in compliance with these requirements during the permit duration (with the exception noted in item C)?
	X Yes No
	2. Will your source be in compliance with all applicable requirements scheduled to take effect during the term of the permit, and will they be met by the applicable deadline?
	<u>X</u> Yes No
В	If you checked "No" for any question in Part A, please attach information identifying the requirement(s) and emission units for which compliance is not achieved, briefly describe how compliance will be achieved with the applicable requirement(s), and provide a detailed Schedule of Compliance (i.e., a schedule of remedial measures, including an enforceable sequence of actions with milestones and projected compliance dates). Title this portion of the document "Schedule M: Compliance Information". Indicate the frequency for submittal of progress reports (at least every six (6) months) and the starting date for submittal of progress reports.
c	Do you have scheduled shutdown of control equipment for maintenance while the emission units are still operating?
	Yes _X_ No
	If yes, attach a description of the equipment that will be taken out of service, what pollutants and emission sources are affected, the schedule and duration of the shutdown, and what actions will be taken to minimize emissions.
SEC	TION 8: OTHER PERMITS
	Do you own or are you related to any other permitted company in Pennsylvania?
	Yes _X_ No
	If so, please list the company names:

SECTION 7: COMPLIANCE PLAN

SECTION 9: COMPLIANCE CERTIFICATION
You are required to submit a certificate of compliance with all applicable requirements and a method of determining compliance with those requirements (CEMS, monitoring, tests, record keeping and other reporting). Compliance certifications are to be submitted at least on an annual basis. Please answer the following:
Schedule for Submission of Compliance Certification during the term of the permit:
X We will submit a Compliance Certification annually at the same time as the submittal of the annual administrative fee. OR
Beginning on: / /
CERTIFICATION OF COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS

A "responsible official" must sign this certification. Applications without original signed certifications or necessary corporate authorizations will be returned as incomplete.

Except for the requirements identified in Section 7 for which compliance is not yet achieved, I hereby certify that, based on information and belief formed after reasonable inquiry, the source identified in this application is in compliance with all applicable air requirements.

• • • • • • • • • • • • • • • • • • • •	Il applicable air requirements.
D	SKW.
Signature of	Responsible Official
Glenda K. We	hrli, Director of Environmental Compliance & Employee Safety
	le of Signer (Print or Type)
3100 Grand A	
Mailing Addr	ess (Street # and Name or P. O. Box #, RR #, RD #, Box #)
Pittsburgh, PA	15225
City, State, a	nd Zip Code + Extension
Date: 3	71202-3

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A Major source may, at its option, choose to place limits on its operation or emissions in order to become a "Synthetic Minor" source, and not be subject to the additional requirements of a Major source. These limits will become permit restrictions and will be federally enforceable.
Does this application include any requested restrictions? X Yes No
If so, have these restrictions caused this site to go below Major source thresholds and become a Synthetic Minor? X Yes No
Is this facility requesting to become a Synthetic Minor source? X Yes No (Please check the box on the top of page 1 as well.)
Be sure to include on each source information sheets, Forms A, B, and C, a complete description of the limitations that make this source a Synthetic Minor. Attach extra pages, if needed.
SECTION 11: INFORMATION FOR INSTALLATION PERMITS
Is this a new Major source or Major Modification for any criteria pollutant which is in or impacting a non-attainment area? YesX No If yes, list below for which pollutant(s).
Attach all required documents required under Article XXI, sections 2102.05 and 2102.06.
Is this a new Major source or Major Modification for any criteria pollutant which is in or impacting an attainment area or unclassified area? Yes _X_ No
If yes, list below for which pollutant(s).
Attach all required documents required under Article XXI, sections 2102.05 and 2102.07.
A source applying for a Minor Installation Permit may request public review at this time.
Are you requesting public review for a Minor Installation Permit?

SECTION 10: SYNTHETIC MINOR

__ Yes __ No

SECTION 12: ALTERNATIVE OPERATING SCENARIOS

This permit allows for certain flexibility in operations. Please note the explanation of this section in the instructions. While filling out your permit application, consider all the different operating scenarios you might want to operate under during the 5-year term of your permit. This may include a change in inks or solvents, operating schedules, or other expected departures from operations that cannot be adequately described in the main body of the permit application.

Do you seek a	pproval of any alternative operating scenario?
Yes _X_	No
If "Yes":	Complete Form N to provide complete information for each alternative operating scenario to be employed at this location. Duplicate pages as needed.
Please note th	at there may be additional reporting requirements for alternative scenarios.
SECTION 13	: ADDITIONAL SUBMITTALS
of unit below, a emitted by this pollutants not i	e submitted for each process, boiler, incinerator, etc., as indicated below. Provide the numbers of each type and submit the designated form for each unit. Also, identify each criteria pollutant and other regulated pollutant source (facility). See Article XXI, definition of hazardous air pollutant and section 2101.10. Include also other regulated, but with known emission rates. Provide the total below, and submit an emissions summary for each below all attachments made for this application. All applicable forms must be attached to each copy of the
1 Nu 6 tan Or X F X N 1 N 1 N 1 N 1 N Are m Are re Are of Is a B	Number of Processes - Submit one Form A for each process. Number each P001, P002, etc. Number of Boilers - Submit one Form B for each boiler. Number each B001, B002, etc. Jumber of Incinerators - Submit Form C for each incinerator. Number each I001, I002, etc. Jumber of Incinerators - Submit Form C for each incinerator. Number each I001, I002, etc. Jumber of Incinerators - Submit Form C for each incinerator. Number each I001, I002, etc. Jumber of Sumber of Sumber of Submit Form E. Jumber of Sumbit Form F. Jumber of Form F. Jumber of Form G: Miscellaneous Fugitive Emissions. Jumber of Form M: One Emissions Summary Form for Each Pollutant. Jumber of Form M: One Form M for each. Jumber of Form N: One Form M for each scenario. Jumber of Form N: One Form N for each scenario. Jumples of Form N: One Form N for each scenario form D form N for

SECTION 14: ANNUAL APPLICATION / ADMINISTRATION FEE CALCULATION

(These fees are accurate from 01/012022 through 12/31/2025)

INSTALLATION PERMIT APPLICATION - Check all that pertain to this application:

If this source is applicable to more than one category listed below, it is subject to the <u>highest</u> of the applicable fees, not to the to	ubject to the <u>highest</u> of the applicable fees, not to the total
--	---

Α		Prevention of Significant Deterioration (\$32,500)					
В		Involving ACHD Development of a MACT Standard (\$9,500)					
С	C ACHD Establishment of a MACT standard (\$9,500)						
D	□ Any source subject to an existing NSPS, NESHAP, or MACT (\$2,500)						
Ε	Any other Installation Permit (\$2,500)						
F	☐ Modification to an existing Installation Permit (\$1,500)						
		Installation Permit Fee	\$_0				
OPER	ATING	PERMIT APPLICATION - Check all that pertain to this application:					
А.	Base (Re	e fee (New Minor/Synthetic Minor Source - \$2,500.00 / Major Source - \$5,000.00): newal Minor/Synthetic Minor Source - \$2,100.00 / Major Source - \$4,000.00)	\$ <u>2,500</u>				
B. Hazardous Air Pollutant Source fee - (Major Source only - if any "hazardous air pollutants" (see §2101.10) are listed on Form K, add 50% of operating permit fee.)							
C.	Acid Rain Source fee (Major Source only - if any "acid rain" regulations are listed in Section 5, add 50% of operating permit fee.) +\$ 0						
D.	Adj	usted Base fee - Add A., B., and C.:	=\$ <u>2,500</u>				
E.	Noncomplying Source fee (if "No" is checked in Section 7 Part A) Add 50% of the "Adjusted Base fee" from line D. above: +\$ 0						

Additional, less frequently encountered, fees can be found on the ACHD website.

Total Fee Due - Add D. and E.:

F.

Checks are to be made payable to the "ACHD Air Pollution Control Fund."

=\$ 2,500

All minor sources that apply for Operating Permits will be required to pay an annual maintenance fee of \$500 for small minor sources, \$2000.00 for minor sources, and \$4,000 for synthetic minor sources. Major sources are also required to pay annual emissions fees. These are to be paid at the scheduled submittal of the annual emissions inventory.

First Name Glenda		M. I. K	Last Name Wehrli		
Title	Director of Environmental Compliance & Employee Safety				
Telephone	412-771-7000 ext. 5033		FAX		
Mailing Address	ess (Street # and Name or P. O. Bo Avenue	< #, Box #, RR #, I	RD #):		

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SECTION 15: SIGNATURES AND CERTIFICATION CERTIFICATION OF COMPLETED APPLICATION CERTIFICATION (for corporate applicants: Attach Certificate of Corporate Authority) Subject to the penalties of Title 18 Pa. C.S. Section 4904 relating Signature of Preparer of Form (if different to unsworn falsification to authorities, I certify that I have the than applicant). authority to submit this Permit Application on behalf of the applicant named herein and that the information provided in this Application is true and correct to the best of my knowledge and Signature information. Name, Mailing Address, and Phone# - Print or Signature Glenda K. Wehrli Name - Print or Type Thomas Samarco Director of Environmental Compliance & Employee Safety Title - Print or Type Ramboll US Consulting, Inc. 3100 Grande Avenue Mailing Address - Print or Type 1999 Broadway Suite 2225 Pittsburgh, PA 15225 City, State, and Zip Code + Extension - Print or Type Denver, CO 80202 (412) 771-3340 (412) 771-7100 **Fax Phone Number Day Phone Number** {For corporations: Certificate of Corporate Authority must be completed, by the Corporate Secretary, and attached) CERTIFICATE OF CORPORATE AUTHORITY tify that I am the Secretary of the corporation who has signed this document on behalf of the corporation was then Vice corporation; and that I know his/her signature and his/her signature is genuine; and that said Agreement was fully signed, sealed, and attested for and in behalf of said corporation by authority of its governing body

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	{Print or type}	3. Jennings y + Theasurer	
	{Signature}	0 5	

PERMIT APPLICATION FORM A PROCESS OPERATIONS

Metalico Pittsburgh, Inc.

PLANT NAME AND LOCATION:

3100 Grand Avenue Pittsburgh, PA 15225

PART I - DESCRIPTION OF PROCESS (MAKE A COPY OF SCHEDULE A FOR EACH PROCESS.)							
Company Identification or Description: <u>Scrap Metal Processor (P001)</u> Installer: Metso Texas Shredder Installation Date: 2004							
Installer: Metso Texas Shredder Installation Date: 2004 Contractor (if operated by another): N/A							
Design Charging or _X_ Production rate (specify units):	120 ton/hr (per Consent Order issued by USEPA on 12/9/2022 and signed on January 19, 2023)						
240,000 tons/yr (per Consent Order issued by USEPA on							
Raw							
Materials: Automobiles, appliances, miscellaneous light	nt steel scrap, metal						
Materials Produced: Ferrous and non-ferrous metals							
Process Operation Units: (1.) <u>Shredder</u>							
	nveyance and sorting						
Permit Number, if any) (3.)							
(5.)							
Diagram of Process Flow: Attach a separate sheet with segment listed under Process Operation Segments. Label segment. Label emissions discharge points and the location	a drawing of a flow diagram of this process, labeling each product intake points and product discharge points for each of emissions control devices.						
PART II - PROCESS OPERATION SCHEDULE							
	new unit, please estimate) As specified in Consent Order						
Hours/day 10 Days/week 5 Weeks/y	ear <u>52</u> Hours/year <u>2,000</u>						
Seasonal: Periods correspond to seasons instead of calendar quarters. The first season is split to include December, January, and February of the calendar year reported. Percent of Annual Production							
December, January, & February 25% June, July	y, & August25%						
	er, October, & November25%						
 B. Requested limits: (Limitations on operating hours are optional.) Choose One: 8760 hours (no limitations) or X I/We request the following limitation This may become a federally enforceable permit condition: Describe how this can be enforced: either list an operating schedule or downtime (e.g. only operate 8:00 to 4:00) or an operating hour reporting requirement. Total days x Hours/day = _2,000 _ Hours/year 							
Company: Metalico Pittsburgh, Inc. Page: App	lication – 13 Permit Application Rev. 2021-12-15						

PART III - FUELS	S - Not Applic	able				
A. Normal opera	ition (Provide ii	nformation for las	t year. If a new o	ınit, please estima Secondary	ite) Other	Other
Type:						
Max Amount/h	nour					
Sulfur Content	t (% wt):					
Ash Content ((% wt):					
BTU Rating (s	specify units)					
Annual Fuel C	onsumption					
Seasonal Fue	I Consumption	(%):				
Deceml	ber, January, a	nd February				
March,	April, and May					
June, J	uly, and August					
Septem	ber, October, a	nd November				
of: (give reas	units such as B on). nits (limitations	TU, mmcf, gallon	s per ton, etc.), n re optional, but	nixed in a variable may allow a Majo	ratio of: to	mixed in a fixed ratiodetermined byexempted from some
requirements) Full use o The follow	These may b ot any fuel or co	ecome permit combination at any on types of fuels of	onditions. Pleas time (no limitatio	e check one: ons)		e how compliance with
PART IV - OTHE	R LIMITATION	S				
Identify any othe these restrictions	er requested lim s will be demons	nitations, such as strated. These li	on production r mitations may b	ates or materials ecome permit co	use. Describe onditions.	how compliance with
rate to 240,000 to	ons/year. Addit ission ca l culation	ionally, an emissions related to V	on factor of 0.39 OC emissions of	Ib VOC per ton of	shred feed (I b shredder. The	limit annual throughput VOC/ton) will be used proposed hours and an 50 TPY.
Per Consent Ord	er issued by US	SEPA on 12/9/202	2 and signed on	1/19/2023, the fac	ility will maintai	n the following records:
1. Maintain to or grea	records of the ater than 200 ar	total number of h	ours per day in w edder's exiting, o	hich the shredder	operates at an	amperage draw equal age monitoring system.
2. Daily red	cord of the shr	edder feed shall	be maintained	using both it's so	ale house and	product classification
Develop	and implement	pon receipt of all a Best Managen mitted annually to	nent Practice Plan	g at the racility. In following the req	uirements listed	d in the Consent Order.

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PART V - APPLICABLE REQUIREMENTS

Describe all applicable requirements affecting air emissions for this unit.

Regulation #	Requirements
Article XXI 2102.04	Installation Permits
Article XXI 2103.12	Issuance, Standard Conditions
Article XXI 2104.01	Visible Emissions
Article XXI 2105.03	Operation and Maintenance

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PART VI -	FMISSION CONTROL	S

Complete the following applicable sections for each pollution control device. Attach additional sheets to provide sufficient information and engineering calculations to support the contol device performance.

On the space to the left of each device, number the device(s) by the order in which they process the waste stream(s). Fill out the requested information, then complete the table for efficiencies by pollutant for each device.

Percent Capture99	_ % (not control effice 43,000	ciency)	
Gas flow through control u		ambient °F	
N/A BAGI	HOUSE (fabric colle	ctor)	
Manufacturer's Name and	Model		
Type of bag material			
	sq. ft.,	air to cloth	
Total filter cloth area	ratio		
Bag cleaning method:		, cycle min	
Pressure Drop: clean		dirty "H₂0	
<u>Pollutant</u>	Efficiency (%)	Basis for Efficiency	Outlet Grain Loading
N/A ELEC	CTROSTATIC PRECI	PITATOR	
Type: Single Stage		Plate. Tube	
Total collecting area:		<u> </u>	
Gas Velocity:		corona power kw	
Bulk resistivity of dust:	ohm-cm	Moisture content of gases:	vol. %
Pollutant	Efficiency (%)	Basis for Efficiency	Outlet Grain Loading
1 (Stack ID S001) CYC Manufacturer's Name an	LONE (dry gas only)		
Gas Inlet: wid	th 2.21 ft.,	height 4.5 ft.	
Diameter: gas outlet	4 x 2.5 ft., cycl	one cylinder (s) 9 ft.	
Length of cyclone: 16	ft., no. of cylin	der(s) 1 Pressure Drop	"H₂O
Pollutant	Efficiency (%)	Basis for Efficiency Please refer to the	Outlet Grain Loading
		Process Flow Diagram	
PM	99%	in Appendix E	

Page:

PART VI - EMISSION CO	NTROLS (CONTINUED)		
N/A CONDENSER			
	Model:		
Type: surface	contact		
Heat transfer area	sq. ft., max proce	ess pressure	psia
Heat duty:	TU/hr. Coolant temp:	inlet	∘F outlet ∘F
Pollutant	Efficiency (%)	Basis for Efficiency	Outlet Concentration (ppm)
<u>r ondiant</u>	<u>Emolency (70)</u>	<u> </u>	
N/A WET COLLECTO	₹		
Manufacturer's Name and			
Entrainment/separator:	cyclone, spray of type , be emicals added to the scru	ed depth	d bed
Pressure drop	"H₂O		
Scrubbing liquid:	flow rate gpm	, inlet temp.	°F, outlet temp. °F
<u>Pollutant</u>	Efficiency (%)		Outlet Concentration (ppm)
Residence time at average	°F, outlet ten	set pointo	°F
Breakthrough (breakpoin	d Model: Fixed bed	essure Drop:	Flow area sq. ft. "H ₂ O <u>Outlet Concentration (ppm)</u>
	tsburgh. Inc. Page:	Augliostica 47	Permit Application Rev. 2021-12-

_2	OTHER TYPES Name and describe. Attach complete details.
H2O Injection System	Smart Water Injection System (WIS) – Model UK3WIS
	Direct water injection into the shredder enclosure. Water is injected to control dust within the shredder and dampen the shredded product to minimize dust emissions during subsequent conveyance and processing. The amount of water injected is controlled on shredder motor load and the injection rate
	is proportional to the load.

PART VI - EMISSION CONTROLS (CONTINUED)

FUGITIVE DUST CONTROLS: Describe below or attach a complete explanation of all controls of fugitive emissions not discussed in Form E - Roads or Form F - Storage Piles.

The facility receives and separates material accordingly prior to processing. Incoming raw material feed stock includes. But is not limited to automobiles, appliances, and clean metal. Due to the size of the incoming material, very little fugitive emissions are expected from the storage of these items.

The feed stock is then processing through the scrap metal processing operation. The processed material is separated into storage piles, including, but not limited to, finished goods inventory (ferrous and non-ferrous commodities), "unshreddable" material, etc. The finished goods material is then loaded into barges, trucks, or railroad cars. "Unshreddable" material is moved to be sold.

In addition, frag material is wetted on an as need basis prior to barge loading operations to further help reduced fugitive emissions.

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PART VII - STACK DATA			
Stack data must be provided for each vented to open air through a restricted	flue, duct, pipe, stack, chin d opening.	nney or conduit (stack	s) at which collected emissions are
Stack Identification: S001			
UTM East	UTM North		or
Longitude			
Most important stacks have been localititude and longitude, provide this intused	cated on topographic or air formation. If there is a num	navigation charts. If hber of stacks close to	you know the UTM coordinates or gether, a common location may be
		6 B: I	36 in. x 21 in.
Otalon Trong	nd level elevation 710	ft. Diameter	(rectangular) ft.
Material Outer: Steel	lining:		
Exit temperature (°F): 92	Exit Velocity: 37	f/s.	
Exhaust Rate: 11,000 (ACFM	M) % Moisture: 2		
Nearest building to stack:			
distance 10.5 ft.	height 20.34 ft.	length 15.5	ft. width 9.75 ft.
Processes Sharing Stack: If more Description		stack, list them and es	timate relative contribution of each.
Contribution to emissions from stack			
Description Contribution to emissions from stack	%		
Description Contribution to emissions from stack Description	%		
PART VIII - REMARKS			
Attach calculations and reference			

this sheet. Reference all emission factors and efficiencies of control equipment.

Please refer to the Emission Calculations in Appendix C.

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PART 9a: EMISSIONS - SHORT TERM LB/HR (POUNDS PER HOUR) OR OTHER _____

Pollutant	PM	PM10	SO ₂	co	NOx	voc	LEAD	Organic HAPs
Allowable	13.06	13.06	-			46.80		1.33
Maximum Potential	13.06	13.06	-			46.80		1.33
Actual or Estimated ⁽¹⁾	10.69	10.69				35.95		1.02

Pollutant				
Allowable				
Maximum Potential				
Actual or Estimated				

PART 9b: EMISSIONS -- ANNUAL TPY (TONS PER YEAR)

Pollutant	РМ	PM10	SO ₂	со	NO _X	voc	LEAD	Organic HAPs
Allowable	13.06	13.06	_			46.80		1.33
Maximum Potential	13.06	13.06	_			46.80		1.33
Actual or Estimated ⁽¹⁾	7.37	7.37				25.23		0.72

Pollutant				
Allowable				
Maximum Potential				
Actual or Estimated				

U/ ACIDAL EMISSIONS DASED ON BITZUZZ E	is based on RY2022 FI	Actual emissions based	(1)
--	-----------------------	------------------------	-----

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PART IX - EMISSIONS (C	CONTINUED)								
definition of Hazardous	List all known pollutants, including, but not limited to those found under Article XXI section 2101.20 in the definition of Hazardous Air Pollutants.								
Transfer this information t	o the summary emissions sl	neets.							
DM / DM / DM / VOC	Ornania IIADa								
PM / PM ₁₀ / PM _{2.5} ; VOC;	Organic HAPS								

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PERMIT APPLICATION FORM B FUEL BURNING OR COMBUSTION EQUIPMENT

PLANT NAME AND LOCATION:

Metalico Pittsburgh, Inc.

3100 Grand Avenue Pittsburgh, PA 15225

Schedule B requires information on boilers, heaters, and other combustion units. Complete one form for each unit, making copies of this form as needed.

PART I - DESCRIPTION OF COMBUSTION UNIT (MAKE A COPY OF SCHEDULE B FOR EACH UNIT)
and the state of t
Company Identification or Description: Clean Burn Energy Systems
Unit Make: Clean Burn Coil Tube Boiler Unit Model: CB-500-CTB
Description of Unit and Type of Firing (e.g. spreader stoker, traveling grate, etc.)
Installer: Metalico PB Installation Date: 12 / 15 / 2017
Contractor (if operated by another): N/A
Installation Date: N/A /_ /_ /_ Your Identification: N/A
Previous County Air Pollution Permit Number (if any): #0692
Rated Capacity (BTU/hr) 500,000 Maximum Capacity (BTU/hr): 500,000
Normal Use (BTU/hr) 500,000
Percent of Heat Used for:
Power Generation % process 100 % space heating % (Annual average)
PART II - OPERATION SCHEDULE
A. Normal schedule: (Provide information for last year. If a new unit, please estimate) Hours/day 8 Days/week 5 Weeks/year 14 Hours/year 550 Start time End time Seasonal: (Periods correspond to seasons instead of calendar quarters. The first season is split to include December, January, and February of the calendar year reported.) Percent of Annual Production
December, January, & February 60 June, July, & August
March, April, & May 20 September, October, & November 20
Warch, April, & Way September, Setaber, & November
 B. Requested limits: (limitations on operating hours are optional) Choose One: X 8760 hours (no limitations) or I/We request the following limitation This may become a federally enforceable permit condition: Describe how this can be enforced: Either list an operating schedule or downtime (e.g. only operate 8:00 to 4:00) or an operating hour reporting requirement.
Total days x Hours/day Hours/year =

Company: Metalico Pittsburgh, Inc. Page: Application - 22 Permit Application Rev. 2021-12-15

ART III - FUELS					
. Normal operation (P					Othor
X Year <u>2022</u>	or Estima	3000	Secondary	Other	Other
Туре:		Waste Oil			1970
Max Amount/hour		3.3 GPH			
Sulfur Content (% wt):	1%		· —	 _
Ash Content (% wt):		0.87%			
BTU Rating (specify	units)	500,000 BTU/hr			-
		2,820			
Annual Fuel Consum		gal/yr	_		
Seasonal Fuel Consu					
December, Jar	uary & February	60	-		
March, April, a	nd May	20			
June, July, and	-	0			
September, Od	tober, & November	20			
requirements) These X Full use of any The following lim	may become perifuel or combination itations on types of	nit conditions. Plea	ase check one: ations) OR		
(give reason). 3. Requested limits (lin requirements) TheseX_ Full use of any	may become perifuel or combination itations on types of	nit conditions. Plea at any time (no limit	ase check one: ations) OR		
(give reason). B. Requested limits (lin requirements) TheseX Full use of any The following lim method will be depart iv - OTHER LIMI	may become perr fuel or combination itations on types of emonstrated):	nit conditions. Plea at any time (no limit fuels or the combina	ase check one: ations) OR tion of fuels (desc	ribe how compl	liance with this
(give reason). 3. Requested limits (lin requirements) These Y_ Full use of any The following lim method will be d	may become perr fuel or combination itations on types of emonstrated): FATIONS sted limitations, su demonstrated. The	at any time (no limit fuels or the combina ch as on production ese limitations may	ase check one: rations) OR tion of fuels (desc	ribe how compl	liance with this
(give reason). B. Requested limits (lin requirements) TheseX_ Full use of any The following lim method will be described any other requested these restrictions will be	may become perifuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The	nit conditions. Plea at any time (no limit fuels or the combina fuels or the combina ch as on production ese limitations may	ase check one: rations) OR tion of fuels (desc	ribe how compl	liance with this
(give reason). B. Requested limits (lin requirements) TheseX_ Full use of any The following limmethod will be described any other requences restrictions will be	may become perifuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The	at any time (no limit fuels or the combinations) ch as on production ese limitations may the combinations may the combinations may this source.	ase check one: rations) OR tion of fuels (desc	ribe how compl	liance with this
(give reason). B. Requested limits (lin requirements) These X Full use of any The following lim method will be downward will be downward will be downward will be downward with the following liming method will be downward will be downward with the following liming method will be downward with the following will be downward with the	fuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The EREQUIREMENTS ir requirements for Requirements Waste-Derive	at any time (no limit fuels or the combinations) ch as on production ese limitations may this source.	rates or materials	use. Describe	liance with this
(give reason). B. Requested limits (lin requirements) TheseX Full use of any The following lim method will be defended by the compact of the	may become perrule fuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The EREQUIREMENTS ir requirements for Requirements	at any time (no limit fuels or the combinations) ch as on production ese limitations may this source.	rates or materials	use. Describe	liance with this
(give reason). B. Requested limits (lin requirements) These X Full use of any The following lim method will be downward will be downward will be downward will be downward with the following liming method will be downward will be downward with the following liming method will be downward with the following will be downward with the	fuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The EREQUIREMENTS ir requirements for Requirements Waste-Derive	at any time (no limit fuels or the combinations) ch as on production ese limitations may this source.	rates or materials	use. Describe	liance with this
(give reason). B. Requested limits (lin requirements) These X Full use of any The following lim method will be downward will be downward will be downward will be downward with the following liming method will be downward will be downward with the following liming method will be downward with the following will be downward with the	fuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The EREQUIREMENTS ir requirements for Requirements Waste-Derive	at any time (no limit fuels or the combinations) ch as on production ese limitations may this source.	rates or materials	use. Describe	liance with this
(give reason). B. Requested limits (lin requirements) These X Full use of any The following lim method will be downward will be downward will be downward will be downward with the following liming method will be downward will be downward with the following liming method will be downward with the following will be downward with the	fuel or combination itations on types of emonstrated): TATIONS sted limitations, sudemonstrated. The EREQUIREMENTS ir requirements for Requirements Waste-Derive	at any time (no limit fuels or the combinations) ch as on production ese limitations may this source.	rates or materials	use. Describe	liance with this

PART VI - EMISSION CON	TROLS - Not App	licable				
information and engineering	calculations to su	pport the o	ontol dev	ice perform	ance.	ional sheets to provide sufficient
On the space to the left of ea out the requested information	ach device, number n, then complete t	er the device he table fo	e(s) by tr r efficient	ie order in v cies <u>by pollu</u>	itant for eac	process the waste stream(s). Fill the children c
Percent Capture						
Gas flow through control uni	ts @		۰F			
	II 4 1					
BAGHOUSE (fabric	•					
Manufacturer's Name and M						
Type of bag material:	oa #	air to clo	th ratio			
	sq. ft.	all to clo	cycle		minute(s)	
Bag cleaning method:	"H₂0,	dirty	•		i i i i i dice(s)	
Pressure Drop: clean Pollutant	Efficiency (%)		asis for Ef			Outlet Grain Loading
Pollutarit	Efficiency (70)	<u> </u>	1313 101 E1	HOICHOY		Oddot Ordin Louisia
ELECTROSTATIC P						
Manufacturer's Name and N		-1-1-	4			
Type: single stage, _				min		
Total collecting area:	sq. π.					
Gas Velocity:	π./sec.	corona po			-	vol. %
	ohm-cm					Vol. 76 Outlet Grain Loading
<u>Pollutant</u>	Efficiency (%)	<u> </u>	asis for Ef	nciency		Outlet Grain Loading
CYCLONE (dry gas	on i v)					
Manufacturer's Name and N						
Gas Inlet: width	· · · · · · · · · · · · · · · · · · ·	height		ft.		
Diameter: gas outlet	*	clone cylin				
Length of cyclone:		•		Pressure D	rop	"H₂O

Outlet Grain Loading

Efficiency (%) Basis for Efficiency

<u>Pollutant</u>

PART VI - EMISSION CONTROLS (CONTINUED) - Not Applicable
CONDENSER
Manufacturer's Name and Model:
Type: surface, contact
Heat transfer area: sq. ft., max process pressure psia
Coolant temp:
Heat duty: BTU/hr. inlet °F outlet °F
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration (ppm)
WET COLLECTOR
Manufacturer's Name and Model: Type: venturi, cyclone, spray chamber, packed bed
Type: venturi, cyclone, spray chamber, packed bed Entrainment/separator: type , bed depth:
Type & construction of chemicals added to the scrubbing liquid:
1,760 & 00.100.00.10.10.10.10.10.10.10.10.10.10.
Pressure drop "H ₂ O
Scrubbing liquid: flow rate gpm, inlet temp °F, outlet temp °F
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration (ppm)
Manufacturer's Name and Model: Type: direct flame, catalytic If catalytic: inlet temp °F, catalyst life
If direct flame: Internal volume cu. ft., average temp °F
Residence time at average temp sec
Auxiliary fuel: max. rating BTU/hr. set point °F, BTU/hr.
Size of Chamber cu. ft. flow rate Pollutant Efficiency (%) <u>Basis for Efficiency</u> <u>Outlet Grain Loading (gn./cu. ft.)</u>
Pollutant Efficiency (%) Basis for Efficiency Outlet Grain Loading (gn./cu. ft.)
ADSORPTION EQUIPMENT
Manufacturer's Name and Model:
Type: continuous, fixed bed Adsorbing material: bed depth in., flow area sq. ft.
Adsorbing material: bed depth in., flow area sq. ft. Breakthrough (breakpoint) time: Pressure drop: "H ₂ O
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration (ppm)
Tonatant Emointy (70)
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ARI VI-LIVIIG	SION CONTROLS	(CONTINUED) – No	t Applicable		
	OTHER TYPES:	Name and describe	. Attach complete d	etails.	
FUGITIVE DUS liscussed in Fo	T CONTROLS: De m E - Roads or For	scribe below or attac m F - Storage Piles.	h a complete expla	nation of all controls	of fugitive emissions not

PART VII - STACK DATA
Stack data must be provided for each flue, duct, pipe, stack, chimney or conduit (stacks) at which collected emissions are vented to open air through a restricted opening.
Stack Identification: WOS-1
UTM East UTM North or
Longitude 80.108382 Latitude 40.507284
Most important stacks have been located on topographic or air navigation charts. If you know the UTM coordinates or latitude and longitude, provide this information. If there is a number of stacks close together, a common location may be used
Stack Height: 33 ft. Ground level elevation 718 ft. Diameter 0.83 ft. Material Carbon Steel-Insulated Double Outer: Walled Lining:
Outer: Walled Lining:
Exhaust rate: 470 (ACFM) % Moisture:
Nearest building to stack:
Distance 0 ft. height 25 ft. length 120 ft. width 48 ft.
Processes Sharing Stack: If more than one process shares a stack, list them and estimate relative contribution of each.
Description
Contribution to emissions from stack %
Description Contribution to emissions from stack %
Description
Contribution to emissions from stack %
Description
PART VIII - REMARKS
Attach calculations and reference all emission factors for Allowable, Potential to Emit, and Actual Emissions to this sheet. Reference all emission factors and efficiencies of control equipment.
Please refer to the Emission Calculations in Appendix C and the waste oil analysis in Appendix D.

PART 9a: EMISSIONS -- SHORT TERM LB/HR (POUNDS PER HOUR) OR OTHER ______

Pollutant	Particul ate	PM10	SO2	co	NO _x	voc	LEAD	
Allowable								
Maximum Potential	0.19	0.16	0.35	0.01	0.05	<0.01		
Actual or Estimated (1)	0.19	0.16	0.35	0.01	0.05	<0.01		

Pollutant				
Allowable				
Maximum Potential				
Actual or Estimated				

PART 9b: EMISSIONS -- ANNUAL TPY (TONS PER YEAR)

Pollutant	Particul ate	PM10	SO2	co	NOX	voc	LEAD	
Allowable								
Maximum Potential	0.83	0.72	1.55	0.03	0.23	0.01		
Actual or Estimated (1)	0.08	0.07	0.15	<0.01	0.02	<0.01		

Pollutant				
Allowable				
Maximum Potential				
Actual or Estimated				

(1) Actual emissions based on RY2022 EIS.

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PART IX - EMISSIONS (CONTINUED)		
List all known pollutants, including, but definition of Hazardous Air Pollutants.		rticle XXI section 2101.20 in the
Transfer this information to the summary emis	ssions sheets.	
PM / PM ₁₀ / PM _{2.5} ; SO ₂ ; CO; NOx; VOC		
	444	

PERMIT APPLICATION FORM C SOLID WASTE INCINERATOR

Not Applicable

PLANT NAME AND LOCATION:	

Schedule C requires information on incinerators. Complete one form for each unit, making copies of this form as needed.

Do not use this form for afterburners used as control devices.						
PART I - DESCRIPTION OF COME	USTION UNIT (MAKI	E A COPY OF SCHE	DULE	C FOR EACH UNIT)		
Company Identification or Description	on:					
Unit Make:		odel and Class:				
American Incinerator Association Cl				BTU/lb as	fired	
Daily Amount Waste	Lbs. () Estir	mated, () Act	tual			
Installer:		Installation D	ate:	/		
Contractor (if operated by another):						
Installation Date: //	Your Ide	ntification:				
Previous County Air Pollution Permi	t Number (if any): _					
Primary Combustion Chamber:	Length _	ft	in.	Grate Area	sq. ft.	
-	Width	ft	in.	Burner capacity	BTU/hr	
		ft		Hearth area	sq. ft.	
	Volume	cu. ft.		Heat release	BTU/hr/cu ft	
Secondary Combustion Chamber:		ft	in.	Smallest Area	sq. ft.	
•		ft.	in.	Burner capacity	BTU/hr	
	Height	ft	in.	Max velocity	ft/sec	
	Volume	cu. ft.				
	Flue Gas Flow	acfm@		°F	% % excess air	
Attach a flow diagram of all waste	and fuel streams				_	
,g						
PART II - OPERATION SCHEDUL						
A. Normal schedule: (Provide info	ormation for last year	. If a new unit, pl	ease	estimate)		
	eek Wee					
	End time:		_	, <u> </u>		
Seasonal: (Periods correspond			rs. T	he first season is sr	olit to include December.	
January, and Febru	lary of the calendar y	ear reported.)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Annual Production	n			
December, January, & February	, June	July & August				
March, April, & May			k No	vember		
Islaion, April, a islay		J				

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B.	 B. Requested limits: (limitations on operating nours are optional) Choose One. 8760 hours (no limitations) or I/We request the following limitation – This may become a federally enforceable permit condition: Describe how this can be enforced: Either list an operating schedule or downtime (e.g. only operate 8:00 to 4:00) or an operating hour reporting requirement. 								
		Total days x	Hou =	urs/day	Hours/y	ear			
				_					
PA	ART III - F	UELS							
A.		operation(Provide information ar or Estir		ar. If a new Primary	unit, please estimat Secondary	e) Other	Other		
	Type:								
	Max amo								
		ntent (% wt):					-		
		ent (% wt):							
		ing (specify units)							
		fuel Consumption							
		ll Fuel Consumption (%): ecember, January and Februa	rv.						
		arch, April, and May	' y				-		
		ine, July, and August							
		eptember, October, and Nover	nber						
	Requeste requirement TI	give units such as BTU, mmot reason). ed limits (limitations on operaents) These may become peull use of any fuel or combinations on indinethod will be demonstrated):	ations are o ermit condi ion at any t	optional, but itions. Plea ime (no limi	may allow a Major se check one: ations) OR	source to be	exempted from	ı some	
P	ART IV - C	OTHER LIMITATIONS							
Id th	entify any ese restric	other requested limitations, stions will be demonstrated. T	such as on These limita	production ations may	rates or materials u pecome permit con	ise. Describe	how compliand	ce with	
C	Company:	Metalico Pittsburgh, Inc.	Page:	Applicati _	on – 31	Permit Ap	plication Rev. 202	1-12-15	

Describe all applicable air requirements for this source.								

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PART VI - EMISSION CONTROLS
Complete the following applicable sections for each pollution control device. Attach additional sheets to provide sufficient information and engineering calculations to support the contol device performance.
On the space to the left of each device, number the device(s) by the order in which they process the waste stream(s). Fout the requested information, then complete the table for efficiencies by pollutant for each device.
Percent Capture % (not control efficiency) Gas flow through control units @ °F
BAGHOUSE (fabric collector)
Manufacturer's Name and Model:
Type of bag material:
Total filter cloth area: sq. ft. air to cloth ratio
Bag cleaning method: cycle min
Pressure Drop: clean "H ₂ 0, dirty "H ₂ 0
Outlet Grain Loading Corr. To 7% O ₂
Pollutant Efficiency (%) Basis for Efficiency (gn/cu. ft)
ELECTROSTATIC PRECIPITATOR Manufacturer's Name and Model:
Type: single stage, two stage, plate, tube
Total collecting area: sq. ft. cleaning cycle min
Gas Velocity: ft./sec. corona power kw
Bulk resistivity of Dust: ohm-cm Moisture Content of gases vol. %
Outlet Grain Loading Corr. To 7% O2
Pollutant Efficiency (%) Basis for Efficiency (gn/cu. ft)
CYCLONE (dry gas only)
Manufacturer's Name and Model:
Gas inlet: width ft., height ft.
Diameter: gas outlet ft., cyclone cylinder (s) ft.
Length of cyclone: ft., no. of cylinder(s) Pressure Drop "H ₂ O
Outlet Grain Loading Corr. To 7% O ₂
Pollutant Efficiency (%) Basis for Efficiency (gn/cu. ft)

PART VI - EMISSION CONTROLS (CONTINUED)	
CONDENSER	
CONDENSER Manufacturer's Name and Model:	
Manufacturer's Name and Model:	
Type: surface, contact Heat transfer area: sq. ft. Max process pressure psia	
11000 (1010) 0100	۰F
11000 00017.	
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration	on (ppm)
WET COLLECTOR	
Manufacturer's Name and Model:	
Type: venturi, cyclone, spray chamber, packed bed	
Entrainment/separator: type, bed depth:	
Type & construction of chemicals added to the scrubbing liquid:	
Type & construction of chemicals added to the scrubbing inquid.	
Pressure drop "H ₂ O	
Scrubbing liquid: flow rate gpm, inlet temp °F, outlet temp	۰F
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration	
Type: direct flame, catalytic If catalytic: inlet temp.	
Residence time at average temp sec	
Auxiliary fuel: max. rating BTU/hr. set point °F, BTU/hr.	
Size of Chamber cu. ft. flow rate	
Pollutant Efficiency (%) Basis for Efficiency (gn/cu. ft)	
ADSORPTION EQUIPMENT	
Manufacturer's Name and Model:	
Type: continuous, fixed bed	4
Adsorbing material: bed depth in., flow area sq.	it.
Breakthrough (breakpoint) time: Pressure drop: "H ₂ O	()
Pollutant Efficiency (%) Basis for Efficiency Outlet Concentration	on (ppm)
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_	OTHER TYPES Name and describe. Attach complete details.

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UTM East		UTM North			or or	
Longitude		Latitude				
Most important stacks h latitude and longitude, p used	rovide this informa	ation. If there is a	number of sta	cks close toget	ner, a common loc	oordinates or ation may be
Stack Height:	_ Ft. Ground I	evel elevation	Ft.	Diameter _	Ft.	
Material						
		Lining	•			
Exit temperature (F):				(f/s)		
E.L. (IB)	(ACFM)	%				
Exhaust Rate:	Moisture:					
Nearest building to stack	C:				ما علق المناسبة	F*4
Nearest building to stack	C:	ght	ft. length		ft. width	Ft.
Nearest building to stack distance Processes Sharing State Description Contribution to emission	ck: If more than	one process share				
Nearest building to stack distance Processes Sharing State Description Contribution to emission Description	ck: If more than	one process share				
Processes Sharing Sta Description Contribution to emission Description Contribution to emission Contribution to emission	ft. height. ft. height. ft. height. ft. height. ft. ft. ft. height. ft. ft. ft. ft. ft. ft. ft. ft. ft. f	one process share				
Nearest building to stack distance Processes Sharing State Description Contribution to emission Description	s from stack	one process share				

Attach calculations and reference all emission factors for Allowable, Potential to Emit, and Actual Emissions to this sheet. Reference all emission factors and efficiencies of control equipment.

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PART IX - EN	IISSIONS	+						
PART 9a: EM	IISSIONS	SHORT TERM	/I LB/HR (PO	UNDS PER H	IOUR) OR OT	HER	· · · · · · · · · · · · · · · · · · ·	
Pollutant	PM	PM10	SO ₂	co	NO _x	voc	LEAD	
Allowable								
Maximum Potential								
Actual or Estimate d								
							1	
Pollutant								
Allowable								
Maximum Potential								
Actual or Estimate d								
PART 9b: E	MISSIONS -	ANNUAL TP	Y (TONS PE	R YEAR)				
Pollutant	PM	PM10	SO ₂	со	NO _X	voc	LEAD	
Allowable								
Maximum Potential								
Actual or Estimate d								
Pollutant								
Allowable								
Maximum Potential								

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Actual or Estimate d

PART IX	(- EMISSIONS (CONTINUED)			
definitio	known pollutants, including, but n n of Hazardous Air Pollutants.		Inder Article XXI section 21	01.20 in the
Transfer	this information to the summary emiss	sions sheets.		

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PART I - DESCRIPTION OF STORAGE TANKS (MAI	KE A COPY OF SCHEDULE E FOR EACH STORAGE TANK)			
Company Identification or Description:	Metals Department: 1,000-gal On-Road Diesel Tank			
Installer:	Installation Date: / /			
Prior Allegheny County Air Pollution Permit No.	#0692			
Capacity 1,000 gal (specify units)	Age: (years)			
Diameter 4 (ft)	Height 10.67 (ft)			
Paint Color Gray	Loading Type Top Fill Neck			
Materials Normally Used				
Common Name On-Road Diesel	Chemical Name N/A			
Chemical Abstract Service # N/A	Liquid Molecular Weight			
	ia at ambient (temperature)			
Vapor 1 1035010 por	(temperature)			
Type of tank (check appropriate spaces):				
Underground Pressure Tank	Surface X			
If the tank is a surface tank:				
No Roof				
X Fixed Roof				
Roof Paint Color Gray	Shell Paint Color Gray / Medium			
	Average Vapor Space			
Paint Condition Average	Height (ft)			
Pressure Relief Valve Setting:	N/A naio			
Pressure	N/A psia			
Vacuum N/A	1/A			
Vapor Recovery System (Description) – N	N/A			
Control Efficiency N/A %				
Gas Blanketing System Gas	Amt Used			
Floating Roof (specify internal or external floating				
External Floating Roof	3 · · · · · · ·			
Driver or Oakl True				
Secondary Seal Type				
Internal Floating Roof				
Darah Oran Amarikan Tana				
Tank Construction Type				

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PAF	TI-DESCRIPTION OF STORAGE TANKS (MA	KE A COPY OF SCHE	DULE E FOR EACH ST	ORAGE TANK)		
	Company Identification or Description:	Metals Department: 3,000-gal Off-Road Diesel Tank (Tank ID 779081)				
	Installer:		Installation Date:	/		
	Prior Allegheny County Air Pollution Permit No.	#0692				
	Capacity 3,000 gal (specify units)	Age:		(years)		
	Diameter 5.33 (ft)	Height	18.17	(ft)		
	Paint Color Red	Loading Type	Top Fill Neck			
Mat	erials Normally Used					
IVIAL	Common Name On-Road Diesel	Chemical Nan	ne N/A			
	Chemical Abstract Service # N/A	Liquid Molecui				
		ia at <u>ambient</u>	(temper	ature)		
Тур	e of tank (check appropriate spaces):					
	Underground Pressure Tank	Su	rface X			
If th	e tank is a surface tank:					
	No Roof					
<u>X</u>	Fixed Roof	Oh all Da	sint Calar	Dod		
	Roof Paint Color Red		aint Color	Red		
	Paint Condition Average	Average Height	e Vapor Space	2.09	(ft)	
	Pressure Relief Valve Setting:	rioigne			(.,)	
	Pressure	N/A	psia			
	Vacuum N/A					
	Vapor Recovery System (Description) – N	I/A				
	Control Efficiency N/A %					
	Gas Blanketing System Gas		Amt Used			
	Floating Roof (specify internal or external floating	ng roof.)				
	External Floating Roof					
	Primary Seal Type					
	Secondary Seal Type				-	
	Internal Floating Roof					
	Primary Seal Type					
	Deck Construction Type				_	
	Tank Construction Type				<u> </u>	

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PART I - DESCRIPTION OF STORAGE TANKS (MAI	AKE A COPY OF SCHEDULE E FOR EACH STORAGE TANK)			
Company Identification or Description:	Metals Department: 3,000-gal Off-Road Diesel Tank (Tank ID 779081)			
Installer:	Installation Date: / /			
Prior Allegheny County Air Pollution Permit No.	#0692			
Capacity 3,000 gal (specify units)	Age: (years)			
Diameter 5.33 (ft)	Height <u>18.17</u> (ft)			
Paint Color Red	Loading TypeTop Fill Neck			
Materials Normally Used				
Common Name Off-Road Diesel	Chemical Name N/A			
Chemical Abstract Service # N/A	Liquid Molecular Weight			
Vapor Pressure 0.008 ps	sia at <u>ambient</u> (temperature)			
Type of tank (check appropriate spaces):	Surface X			
Underground Pressure Tank _	Surface			
If the tank is a surface tank:				
No Roof				
X Fixed Roof				
Roof Paint Color Red	Shell Paint Color Red			
	Average Vapor Space			
Paint Condition Average	Height (ft)			
Pressure Relief Valve Setting:	N/A psia			
Pressure Vacuum N/A	N/A pola			
Vapor Recovery System (Description) – N	N/A			
vapor resortary dystern (2000riphori)	·····			
Control Efficiency N/A %				
Gas Blanketing System Gas	Amt Used			
Floating Roof (specify internal or external floating	ng roof.)			
External Floating Roof				
Primary Seal Type				
Secondary Seal Type				
Internal Floating Roof				
Primary Seal Type				
Tank Construction Type				

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~ · · · · · · · · · · · · · · · · · · ·				• •

PART I - DESCRIPTION OF STORAGE TANKS (MAI	KE A COPY OF SCHE	DULE E FOR EACH ST	ORAGE TANK)	
Company Identification or Description:	Metals Department: 3,000-gal Off-Road Diesel Tank (Tank ID 779080)			
Installer:		Installation Date:	//	
Prior Allegheny County Air Pollution Permit No.	#0692			
Capacity 3,000 gal (specify units)	Age:		(years)	
Diameter 5.33 (ft)	Height	18.17	(ft)	
Paint Color Yellow (Beige)	Loading Type	Top Fill Neck		
Materials Normally Used				
Common Name Off-Road Diesel	Chemical Nan	ne N/A		
Chemical Abstract Service # N/A	Liquid Molecul	lar Weight	_	
	ia at ambient	(temper	ature)	
•	_			
Type of tank (check appropriate spaces):				
Underground Pressure Tank	Su	rface X		
If the tank is a surface tank:				
No Roof				
X Fixed Roof	0, 1, 0	: . (O - I	Valley (Daims)	
Roof Paint Color Yellow (Beige)		aint Color	Yellow (Beige)	
Paint Condition Average	Average Height	Vapor Space	2.09	(ft)
Pressure Relief Valve Setting:	rieignt		2.00	(14)
Pressure	N/A	psia		
Vacuum N/A		•		
Vapor Recovery System (Description) – N	I/A			
tapor recovery byttem (2 company)				
Control Efficiency N/A %				
Gas Blanketing System Gas		Amt Used		
Floating Roof (specify internal or external floating	g roof.)			
External Floating Roof				
Primary Seal Type				
Secondary Seal Type				
Internal Floating Roof				
Primary Seal Type				
Dook Construction Type				
Tank Construction Type				

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PART I - DESCRIPTION OF STORAGE TANKS (MAKE	E A COPY OF SCHEDULE E FOR EACH STOR	RAGE TANK)
Company Identification or Description:	Shredder Department: 3,000-gal Used	d Oil Tank
Installer:	Installation Date:	/ /
Prior Allegheny County Air Pollution Permit No.	#0692	
	Age: 20+ ((years)
	Height 12 ((ft)
Paint Color Yellow (Beige)	Loading Type Top Fill Neck	
Materials Normally Used	Chemical Name N/A	
Common Name Used Oil Chemical Abstract Service # N/A	Liquid Molecular Weight	
	a at ambient (temperat	rure)
Vapor Pressure <u>0.008</u> psia	tat <u>ambient</u> (temperat	uic)
Type of tank (check appropriate spaces):		
Underground Pressure Tank	Surface X	
If the tank is a surface tank:		
No Roof		
X Fixed Roof		
Roof Paint Color Yellow (Beige)	Shell Paint Color	Yellow (Beige)
	Average Vapor Space	
Paint Condition Average	Height	2.16 (ft)
Pressure Relief Valve Setting:	N/A psia	
Pressure N/A	N/A psia	
Vacuum N/A	Λ	
Vapor Recovery System (Description) - N/	4	
Control Efficiency N/A %		
Gas Blanketing System Gas	Amt Used	
Floating Roof (specify internal or external floating		
External Floating Roof	,	
Secondary Seal Type		
Internal Floating Roof		
Tank Construction Type		
71		

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PART I	- DESCRIPTION OF STORAGE TANKS (N	MAKE A COPY	Y OF SCHE	EDULE E FOR	EACH ST	ORAGE TANK)	
Co	ompany Identification or Description:	Shredd 891695		rtment: 10,0	00-gal C	off-Road Diesel Tai	nk (Tank ID
	staller: Highland Tank & Mfg. Co.			Installatio	n Date:	_12/9 /2004	
	ior Allegheny County Air Pollution Permit No	. #0692					
	apacity 10,000 gal (specify units)			16		(years)	
	ameter 10 (ft)	Height		17		(ft)	
	aint Color White	Loading		Stand Pip	е		
Motorio	ils Normally Used						
	ommon Name Off-Road Diesel	Chen	nical Nar	me N/A			
	nemical Abstract Service # N/A			ılar Weight			
		·	ambient	-	(temper	ature)	
		G.					
Type o	f tank (check appropriate spaces):						
Uı	nderground Pressure Tank		Sı	urface	Χ		
	nk is a surface tank:						
	Roof						
_X Fi	xed Roof		Chall D	aint Calar		White	
	Roof Paint Color White		-	aint Color		vviille	
	Paint Condition Average		Averag Height	e Vapor Sp	ace	3.93	(ft)
	Pressure Relief Valve Setting:						
	Pressure		N/A		psia		
	Vacuum N/A						
	Vapor Recovery System (Description) –	N/A					
	Control Efficiency N/A %						
	Gas Blanketing System Gas			Am	t Used		
FI	oating Roof (specify internal or external float	ting roof.)					
	External Floating Roof						
	Primary Seal Type	·					
	Secondary Seal Type						_
	Internal Floating Roof						
	Primary Seal Type						_
	Deck Construction Type						
	Tank Construction Type	· <u> </u>					

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PART I - DESCRIPTION OF STORAGE TANKS (MAI	KE A COPY OF SCHEDULE E FOR EACH	STORAGE TANK)			
Company Identification or Description:	Shredder Department: 10,000-gal On-Road Diesel Tank (Tank ID 891695)				
Installer: Highland Tank & Mfg. Co.	Installation Date	e: _12/9 /2004			
Prior Allegheny County Air Pollution Permit No.	#0692				
Capacity 10,000 gal (specify units)	Age: 16	- (years)			
Diameter 10 (ft)	Height 17	(ft)			
Paint Color White	Loading Type Stand Pipe				
Materials Normally Used					
Common Name On-Road Diesel	Chemical Name N/A				
Chemical Abstract Service # N/A	Liquid Molecular Weight				
	_ ·	perature)			
•					
Type of tank (check appropriate spaces):					
Underground Pressure Tank	Surface X	-			
Marie de la Company de la Comp					
If the tank is a surface tank:					
No Roof					
X Fixed Roof	Chall Baint Calan	NA lla i La			
Roof Paint Color White	Shell Paint Color	White			
Paint Condition Average	Average Vapor Space Height	3.93 (ft)			
Pressure Relief Valve Setting:					
Pressure	_N/A psi	a			
Vacuum N/A					
Vapor Recovery System (Description) – N	/A	 -			
Control Efficiency N/A %					
Gas Blanketing System Gas	Amt Use	a			
Floating Roof (specify internal or external floating	g root.)				
External Floating Roof					
					
Secondary Seal Type					
Internal Floating Roof					
Primary Seal Type					
Tank Construction Type					

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PART II - OPE	RATING S	CHEDULE - O	n-Road Dies	el				
Throughput (sp Annual 73,		: _ Daily _20	00 gal/day	_				
Maximum turn	overs per ye	ear: 7.01						
Seasonal: Pe January, and F	eriods corre	spond to seas					split to include I	December,
		S	Seasonal Perc	entage of Tot	al Throughpu	t:	0.5	0/
December	, January, &	February 2	5 9	% June, Ju	ly, & August	2. Navanahan	25	% %
March, Ap	ril, & May		5 · · · · · ·	% Septemb	er, October, (,	November	25	/0
Dates tank is r	not normally	'in use:	irom			10	25 25 //	
		VICES - Not A						
TAILT III OO								
Describe any	control devi	ces, including	any gas blank	eting system	noted above.			
PART IV - EN	IISSIONS -	ANNUAL TPY		HEEGE AS I				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Pollutant	PM	PM10	SO ₂	со	NO _X	voc	LEAD	
Allowable								
Maximum Potential						<0.01		
Actual or Estimated						<0.01		
					1	,		
Pollutant								
Allowable								
Maximum Potential								
Actual or Estimated								
Hazardous Air	Pollutants.	including, but			under Article	XXI section	2101.20 in the o	definition o

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PART II - OPE	RATING S	CHEDULE -	- Off-Road Di	esel				
Throughput (s	necify unite)	١٠						
Annual 11			310 gal/day					
			<u></u>					
Maximum turn								. D
Seasonal: Po January, and I		spond to se				he first season is	split to include	e December,
				_	f Total Throug		25	%
	, January, 8	k February	<u>25</u>	_% June	e, July, & Augu	ust er, & November	25	%
March, Ap		rin uso:	from	_ /0 Oeb	iember, Octob I I	TO	1	
Dates tank is not normally in use: from/ TO/ TO//								
PART III - CO	NTROL DE	VICES - No	ot Applicable					
Describe any	oontrol dovi	oos includir	ng any gas bla	nketina evs	tem noted abo	nve		
Describe any	control devi	ces, includii	ig ally gas bla	inceiling sys	stern noted abo			
PART IV - EN	IISSIONS -	ANNUAL T	PY					
				1				
Pollutant	PM	PM10	SO ₂	co	NO _x	VOC	LEAD	
Allowable								
Maximum Potential						<0.01		
Actual or Estimated						<0.01		
Pollutant								
Allowabie								
Maximum Potential								
Actual or Estimated								
المالية	ا معمد المسالم	ا جمانی الم	ut not limited	to those fo	und under Ar	ticle XXI section	2101 20 in the	definition
List all known Hazardous Air		including, b	ut not iimited	to those to	und under Ar	licie XXI section	2101.20 111 (116	delimition o
Transfer this in	tormation to	the summa	ary emissions	sneets.				

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PART II - OPE	RATING S	CHEDULE - L	Jsed Oil					
Throughput (sp			56 gal/day					
Maximum turn	overs per ve	ear: 9.56						
	eriods corre		sons instead	of calendar q	uarters. The f	irst season is	split to include	December,
- 9.00			Seasonal Per					
December, January, & February 25 % June, July, & August <u>25</u> %								%
December, January, & February 25 % June, July, & August 25 % March, April, & May 25 % September, October, & November 25 % Dates tank is not normally in use: from/_/_ TO/_/_								
Dates tank is r	not normally	in use:	from	/_	<u>/</u>	_ то		<u> </u>
PART III - CO Describe any of the part IV - EN	control devi	ces, including	any gas blanl	keting system	noted above.			
Pollutant	PM	PM10	SO ₂	co	NO _X	voc	LEAD	
Allowable			332					
Maximum Potential						<0.01		
Actual or Estimated						<0.01		
				<u> </u>				
Pollutant								
Allowable								
Maximum Potential								
Actual or Estimated								
List all known Hazardous Air Transfer this in	Pollutants.				under Article	XXI section	2101.20 in the	definition of

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PERMIT APPLICATION FORM E DRY BULK MATERIALS STORAGE AND HANDLING

Not Applicable

This form reports particulate emissions from wind erosion of bulk materials stockpiles, from additions and retrievals of material, and from stockpile maintenance. It includes materials stored under cover and in silos. Storage piles including hazardous materials such as lead compounds or asbestos should be reported here. A separate form should be prepared for each stockpile. Mining, excavation, crushing, and other materials processing should be treated as processes and reported on Form A.

PART I - DESCRIPTION OF STORAGE PILE (MAKE A COPY OF SCHEDULE E FOR EACH STORAGE PILE)

Open and enclosed stockpiles of raw ma silos in reporting types of stockpile cover	terials, interring.		nd finished products	
Company Identification or Description	ı:			
UTM East:	UTM North	n:	(center of pile)	
Type of Material Stored (Generic Na	me):			
Major Chemical Components (list, wi	ith percentag	es of each):		
Moisture Content:	%	Silt Content:		%
Height of Pile (give units):				
Uncovered:			square feet	
If covered or enclosed:				
Type of cover:				
Estimated Control Efficiency: _		%		
PART II - STORAGE PILE TRANSFERS For the purpose of this schedule, stockpil a pile. This schedule does not include lo marketing of dry materials, which should	le transfers in ading or unlo	pading from barges,	rail cars or other tran	and removal of material from nsport, or transportation and
Normal Inventory:		(Tons)		
Estimated		Additions (tons	s) Retrieva	ls
December, January, and Feb	oruary			
March, April, and May				
June, July, and August				
September, October, and No	vember			
Annual storage losses (tons)				

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Immobile	- EQUIPMENT e equipment or equipme bile equipment or equip nits. This may include bu utilization is the percenta ge pile.	ment that may	be moved to	o another area c er large, mobile e	of the plant should be equipment that works of	reported on or arou	as transient or and a stockpile.
Fixed or	Dedicated Units						
T IXOU O		<u>me</u>		Size (Capacity)	<u>% (</u>	<u> Jtilization</u>
(1.)							
						-	
(6.)							
Transier	nt or Mobile Units						
		<u>ime</u>			Capacity)	<u>% (</u>	<u> Utilization</u>
(4.) (5.)							
(6.)							
(0.)							
PART I	/ - DUST CONTROL ME	ASURES (des	cribe):				
			·				
PART V	- EMISSION ESTIMATI	ES					
A. Win	d Erosion		D1440			TSP	
		Lb./hr.	PM10	TPY	<u>Lb./hr.</u>	135	TPY
Line	controlled	<u>LD./III.</u>		<u>1 F_1</u>	<u>LD./111.</u>		<u></u>
	trolled						
0011	_		- 8				
B. Sto	ckpile Activity (Storage	and Retrieva	l)				
	-		PM10			TSP	
		<u>Lb./hr.</u>		<u>TPY</u>	<u>Lb./hr.</u>		<u>TPY</u>
	controlled						
	ntrolled _						
C. Sto	ckpile Activity Mainten	ance	DM40			TSP	
		Lb./hr.	PM10	<u>TPY</u>	Lb./hr.	ISF	<u>TPY</u>
Line	controlled	<u>LD.//III.</u>		11-1	<u>LD.//18.</u>		<u> </u>
	ntrolled						
Attach this she	calculations and refere eet. Reference all emiss	nce all emissi sion factors ar	on factors nd efficiend	for Allowable, F cies of control e	Potential to Emit, and quipment.	d Actual	emissions for
Compa	nov: Metalico Pittsburgh	inc. Page	Δι	oplication – 50	Permit	Application	n Rev. 2021-12-15

PERMIT APPLICATION FORM F ROADS AND VEHICLES

This form covers fugitive emissions from vehicles and vehicle travel on paved and unpaved roads and parking lots within the plant property. Plants with only normal business traffic of light duty vehicles and paved parking lots with capacity less than one hundred cars are not required to submit Form F.

RT I - ROADS			
Paved Roads: _0.38 (miles) Parking Lots (area): _~9.8 acres	Unpaved Roads:	0.75 (miles) (specify units)	
ART II - VEHICLES			
Light-Duty Gasoline Vehicles (LDGV)	663	(average weekly number)	
Estimated Total Vehicle Miles Traveled	12,925 VMT/yr		
Seasonal Usage (%)	Paved Areas	Unpaved Areas	
December, January, and February	20	5	_0
March, April, and May	20	5	_
June, July, and August	20	5	_
September, October, and November	20	5	_
Annual Storage Losses (tons)			_
Heavy-Duty Gasoline Vehicles (HDGV)	Estimated Annual Fu	el Consumption (g	gal)
Estimated Total Vehicle Miles Traveled	12,925 VMT/yr	Ave. Wgt. 6.38 tons	
Seasonal Usage (%)	Paved Areas	Unpaved Areas	
December, January, and February	20	5	
March, April, and May	_20		
June, July, and August	_20	5	
September, October, and November	20	5	_
Annual Storage Losses (tons)			_
Heavy-Duty Diesel Vehicles (HDDV)	Estimated Annual Fu	el Consumption (g	gal)
Estimated Total Vehicle Miles Traveled	25,850 VMT/yr	Ave. Wgt. 28.25 tons	
Seasonal Usage (%)	Paved Areas	Unpaved Areas	
December, January, and February	20	5	
March, April, and May	20	5	
June, July, and August	20	5	
September, October, and November	20	5	
Annual Storage Losses (tons)			
		-	

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Road Dust Emissions

	<u>TSP</u>	<u>PM10</u>
Uncontrolled Emissions	28.94 tpy	6.23 tpy
Control Efficiency	N/A	N/A
Controlled (Actual) Emissions	N/A	N/A
	weeping with a skid steer br	oom implement. Watering with a tank truck

Transfer this information to the summary emissions sheets.

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PERMIT APPLICATION FORM G MISCELLANEOUS FUGITIVE EMISSIONS

This form is for reporting miscellaneous fugitive emissions which are not reported in forms A-F. Fugitives are emissions which escape into the plant air or outdoor air by means other than a flue or duct. Fugitives associated with a particular process should be reported on the form for that process. For example, fugitives from a paper coating line would be reported for that line. Fugitives from several segments may be grouped together. Fugitives not associated with any one process should be reported here as "Plant Fugitives." Examples are dust (TSP) and fine particulates (PM₁₀) from abrasive blasting or construction/demolition, VOC and/or air toxics from cleanup, painting or maintenance, or chemicals from laboratory experiments or hoods. A separate form G should be completed for each type or category of activity. Additional forms may be attached if there are more than four (4) pollutants for the activity.

Process Description or Miscellaneous Activity (describe):

Give a verbal description of the activity reported, such as construction projects, abrasive blasting, painting, cleaning, or other activity that has no relation to regular plant processes. State the type of abrasives, cleaners, or paints used, and other information that would be helpful in estimating dust or evaporative emissions.

ZEP Dyna 143			
Distillates			
**			
Solveni			
0514			
35 gal/yr			
25			
25			
25			
25			
6.59 lb/gal			
0.12 tpy			
	Distillates (petroleum), hydrotreated light 64742-47-8 Parts Washer Solvent 35 gal/yr 25 25 25 25 6.59 lb/gal	Distillates (petroleum), hydrotreated light 64742-47-8 Parts Washer Solvent 35 gal/yr 25 25 25 25 25 6.59 lb/gal	Distillates (petroleum), hydrotreated light 64742-47-8 Parts Washer Solvent 35 gal/yr 25 25 25 25 6.59 lb/gal

Commonius	Motaliae Dittaburah Inc	Page:	Application – 53	Permit Application Rev. 2021-12-15
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PARTICULATE EMISSIONS		
	TSP Torch Cutting: 0.06 lb/hr	<u>PM10</u>
Estimated amount of particulates generated per unit of activity	cutting time	
Estimated total amount of particulates		
Seasonal Distribution (%)		
December, January, and February:	25	
March, April, and May:	25	
June, July, and August:	25	
September, October, and November:	25	
Controls (describe): Torch cutting occurs indoor PM emissions settle inside building.	s. Assume 90% of PM emissions is	s emitted to atmosphere and 10% of
Efficiency (%)	N/A	
Net Emissions	0.24 tpy	

Allegheny County Health Department Air Quality Program

PERMIT APPLICATION FORM K

SUMMARY OF EMISSIONS

Pollutan		CAS		6		ootii	mated
ollutari		_ No	Y €	ear for actual emissions	or	esur	nateu
POINT	UNITS DISCHARGING TO THIS STACK	EMISSION S DESCRIP		ANNUAL THROUGHOU UNITS	T ALLOWABLE UNITS	POTENTIAL	ACTUA
		Please re	efer to the E	mission Calculations in	Appendix C.		
TOTAL	EMISSIONS FOR	THIS SOURCE	E (FACILIT	Y)			
identifying	numbers from your	plant drawing. F	or a more co	number. For the fields "Poi nplete explanation of emissi on. Calculate using the capa	ons, see definitions ir	n Article XXI.	
and the m	emissions are the most strict regulation prints in the units.	pertaining to that	unit Calcula	ite for the shortest term regu	lated (one hour, one o	lay). Reflect th	e time pe
operation	to emit (Potential on al design of the unit. ne Allowable emissio	Include any pern	naximum cap nitted or regu	acity to emit contaminants, i lated restrictions to operate.	including fugitive emi The Potential to Emi	ssions, under the t values should b	physical e less tha
estimate (of a normal annual or	peration. Please	note that sou	emissions from each unit. F rces will be required to subi t will be made under a separ	mit an annual emissic	actual emissions ns report and ma	would be by be requ
				e to report additional pol			

PERMIT APPLICATION FORM M SOURCE OUT OF COMPLIANCE

Not Applicable

FORM M Sources Out of Compliance

There is no Form M included in this application form. Strategies for bringing non-complying sources into compliance will vary so widely from source to source that it would not be useful to provide a form for completion. Provide your own description and label it Form M. Include enough detail that it is clear what emission units are not in compliance and of what regulations they are not in compliance. Provide a detailed schedule of compliance. This would include an installation schedule, changes in operations, a leak detection program schedule -- whatever it will require to bring the emission unit into compliance. Make sure that the dates are manageable; they may be included in the permit, and become enforceable. Regular reports on the progress of reaching compliance are required every six months (they may be more frequent if desired).

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PERMIT APPLICATION FORM N ALTERNATIVE OPERATING SCENARIO

Not Applicable

A:	GENE	IL INFORMATION
	1.	ernative Scenario Number (Plan #):
	2.	ve a general description of the changes involved in this alternative scenario:
	3.	ease Identify the emissions units affected in the Table below: mission Unit # Type of Changes in the Process / Changes SIC/SCC Associated
		Emission Unit in the Project / Other Changes with Scenario
	-	
	4.	escribe and cite all applicable requirements pertaining to this alternative scenario:
B:		ANCE METHOD
٥.		Emission Pollutant Compliance Reference Monitoring Frequency / Unit # Method Test Method Device Duration of Sampling
Att	ach an	ther related information which would further explain the method of compliance.
C:	RECO	DKEEPING AND REPORTING
	1.	st what parameter will be recorded and the frequency of recording:
	2.	escribe what is to be reported and the frequency of reporting? (Reports must be submitted at least every six) months
	3.	eginning reporting date: / /

APPENDIX B Compliance Review Form



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF AIR QUALITY

AIR POLLUTION CONTROL ACT COMPLIANCE REVIEW FORM

Fully and acc	urately provide the	following	j information, as	specified	. Atta	ch additional sheets as necessary.
	pliance Review F					
☐ Original	-					e Review Form Filing:
	d Filing		<u>01/11/202</u>	<u>21</u>		
Type of Subi	nittal					
☐ New Pla	n Approval	\boxtimes	New Operating	Permit		Renewal of Operating Permit
☐ Extension	n of Plan Approva	I	Change of Own	ership		Periodic Submission (@ 6 mos)
Other:						
	SEC	CTION A	. GENERAL API	PLICATI	ON IN	IFORMATION
	licant/Permittee/ tions-attach doc			e)		
Metalico Pitts			_			
Address	3100 Grand Ave	nue				
	Pittsburgh, PA 1	5225				
Telephone	412-771-7000		Taxpaye	r ID#	26 - 24	52344
Permit, Plan	Approval or App	lication I	ID#			
Identify the f	orm of managem	ent unde	er which the app	licant c	onduc	cts its business (check appropriate
☐ Individu	al 🔲	Syndica		Gove	ernme	nt Agency
Municip	_	•	oal Authority L	_	Ventu	
☐ Propriet	·		us Name L	_	ciatio	
	Corporation \square	Partner	rship ∟ FPartnership	」 Othe	rlype	e of Business, specify below:
	Corporation Low the type(s) of			ormed.		77
Facility perfor	ms scrap metal re ne processed scrap	cycling b	y mechanical pre	paration	includ ferrous	ding baling, shearing, breaking, and sometal, and non-metallic for recycling or

SECTION B. GENERAL INFORMATION REGARDING "APPLICANT"

If applicant is a corporation or a division or other unit of a corporation, provide the names, principal places of business, state of incorporation, and taxpayer ID numbers of all domestic and foreign parent corporations (including the ultimate parent corporation), and all domestic and foreign subsidiary corporations of the ultimate parent corporation with operations in Pennsylvania. Please include all corporate divisions or units, (whether incorporated or unincorporated) and privately held corporations. (A diagram of corporate relationships may be provided to illustrate corporate relationships.) Attach additional sheets as necessary.

Unit Name	Principal Places of Business	State of Incorporation	Taxpayer ID	Relationship to Applicant
Metalico Pittsburgh, Inc.	3100 Grand Ave., Pittsburgh	PA	26-2452344	Applicant
Metalico, Inc.	135 Dermody St., Cranford	NJ	26-2452344	Parent
Metalico Pittsburgh, Inc. dba Metalico Brownsville	Albany Rd., Brownsville	PA	26-2452344	Related Party
Metalico Bradford, Inc.	288 High St., Bradford	PA	25-14651106	Related Party
Metalico Bradford, Inc. dba Metalico North East	10224 W. Main St., Northeast	PA	25-14651106	Related Party
Metalico Youngstown, Inc. dba Metalico Shenango Valley	329 S. Dock St., Sharon	PA	27-1372839	Related Party

SECTION C. SPECIFIC INFORMATION REGARDING APPLICANT AND ITS "RELATED PARTIES"

Pennsylvania Facilities. List the name and location (mailing address, municipality, county), telephone number, and relationship to applicant (parent, subsidiary or general partner) of applicant and all Related Parties' places of business, and facilities in Pennsylvania. Attach additional sheets as necessary.

Unit Name	Street Address	County and Municipality	Telephone No.	Relationship to Applicant
Metalico Pittsburgh, Inc. dba Metalico Brownsville	Albany Rd., Brownsville, PA	Fayette County	724-785-6000	Related Party
Metalico Bradford, Inc.	288 High St., Bradford, PA	McKean County	814-362-6873	Related Party
Metalico Bradford, Inc. dba Metalico North East	10224 W. Main St., Northeast, PA	Erie County	814-725-1253	Related Party
Metalico Youngstown, Inc. dba Metalico Shenango Valley	329 S. Dock St., Sharon, PA	Mercer County	724-342-1030	Related Party

Provide the names and business addresses of all general partners of the applicant and parent and subsidiary corporations, if any.

	ne	В	usiness Address	
Altra				
	MAN AND AND AND AND AND AND AND AND AND A		***	
List the names and being permitted (i.e.		persons with overall ma	nagement responsibil	ty for the process
Nar		E	Business Address	
Glenda Wehrli	3	100 Grand Avenue, Pittsl	ourgh, PA, 15225	
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Compliance Background. (Note: Copies of specific documents, if applicable, must be made available to the Department upon its request.) List all documented conduct of violations or enforcement actions identified by the Department pursuant to the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. Attach additional sheets as necessary. See the definition of "documented conduct" for further clarification. Unless specifically directed by the Department, deviations which have been previously reported to the Department in writing, relating to monitoring and reporting, need not be reported.

Date	Location	Plan Approval/ Operating Permit#	Nature of Documented Conduct	Type of Department Action	Status: Litigation Existing/Continuing or Corrected/Date	Dollar Amount Penalty
1/19/2023	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Administrative Compliance Order of Consent, U.S. EPA Docket No. CAA-03-2023- 0016DA issued by USEPA on December 9, 2022 and signed on January 19, 2023.	Administrative Compliance Order of Consent	Pending with updated permit application	\$
10/4/2021	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Current Minor Source Permit did not include an enforceable limitation on shredder's allowable annual hours of operation.	Notice of Violation and Opportunity to Confer Administrative Compliance Order of Consent	Pending with updated permit application	\$
12/10/2018, 4/4/2019 & 5/17/2019	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Visible Emissions	Violation w/ Fine	7/19/19 — Enforcement Order (see attached)	\$12,750
11/15/2018	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Restriction, Monitoring Requirement, Recordkeeping Requirement	Violation w/ Fine	11/15/2018	\$6,900
12/11/2017	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Open Burning	Violation w/ Fine	12/11/2017	\$2,600
2/22/2016	3100 Grand Avenue, Pittsburgh, PA, 15225	0692	Waste Oil Unit – not permitted	Violation w/ Fine	3/14/2016	\$800

List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

Date	Location	Plan Approval/ Operating Permit# Please see attached	Nature of Deviation	Incident Status: Litigation Existing/Continuin Or Corrected/Date				
Please see attached.								
		-						

<u>CONTINUING OBLIGATION</u>. Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional deviations occur between the date of submission and Department action on the application.

VERIFICATION STATEMENT	
Subject to the penalties of Title 18 Pa.C.S. Section 4904 and 35 P.S. S of law that I am authorized to make this verification on behalf of the that the information contained in this Compliance Review Form is true formed after reasonable inquiry. I further verify that reasonable purposed in the information set forth in this Compliance Review Form.	ne Applicant/Permittee. I further verify ue and complete to the best of my belief procedures are in place to ensure that
Signature	Date
Glenda Wehrli	
Name (Print or Type)	
((,) [
Director of Environmental Compliance & Employee Safety	

Metalico Pittsburgh Shredder Notification Log

Date Reported	Time Reported	Incident Reported By	Incident Reported To	Statement of Incident
2/7/2022	11:30 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 11:20AM; we are still investigating. There is no additional information to provide at this time. SRI # 202200001
2/15/2022	8:46 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 8:41AM; we are still investigating. There is no additional information to provide at this time. SRI # 202200003
2/28/2022	9:55 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 9:53AM; we are still investigating. There is no additional information to provide at this time. SRI # 202200005
3/1/2022	9:46 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 9:35AM. At this time we believe it came from loose material. We are still investigating: no additional information to provide at this time. SRI # 202200004
3/4/2022	8:36 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had failure with the Smart Water System this morning. At approximately 7:35am we started running the unit, within 5 minutes our Operations Manager noticed there was an issue and shut down the unit immediately. The Operations Manger reset the system and start the shredder back-up for another 5 minutes and notice the water system was still not working properly. I called the County but the answer service picked-up. I will send a Breakdown Report detailing the event once I receive the report number from the County.
4/1/2022	12:42 PM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 12:35PM. At this time, we do not believe it came from a vehicle. We are still investigating: no additional information to provide at this time. SRI # 202200007
4/4/2022	2:03PM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 2:00PM. We are investigating the cause at this time. SRI # 202200008
4/11/2022	10:38 AM	Glenda Wehrli	ACHD	Metalico Pittsburgh had an incident at approximately 10:20AM. The team is investigating the cause at this time. SRI # 202200009
4/19/2022	2:45 PM	Kyle Michlovic	ACHD	Metalico Pittsburgh had an incident at approximately 2:26 pm, we are still investigating. There is no additional information to provide at this time. SRI # 202200010
				Metalico Pittsburgh had a small fire this afternoon at approximately 2:54pm. A supplier was being unload, when the operator pulled material from the supplier and it was smoking. The team immediately put water on the material/pile. Additional piles were wetted as a precaution. We stopped applying water at the site at approximately 3:06pm. The second shift is performing fire watch. I called the ACHD at 3:02pm to report the fire. I left a voicemail on an answering machine affiliated with the phone number (412) 578-8115. I have not heard back from the County so I am sending this email to ensure the proper individuals receive the information in a timely manner. It was a small fire put out within minutes. This is not a breakdown. No equipment was involved. No vehicles were involved. The material that caught fire was loose sheet. The fire was located at the "infeed" area of the shredder. Feel free to call my cell phone if you have any questions. I will not be in the office until Tuesday of next week. However, Lauren Pawlak will be available if the County should visit the site. SRN # 202200013
5/25/2022	6:07PM	Glenda Wehrli	ACHD	
7/27/2022	8:03AM	Kyle Michlovic	ACHD	At approximately 7:52am on 7/27/2022 Pittsburgh had an incident. It is believed that it came out of our loose pile, the team is still investigating. SRI # 202200014
8/12/2022	1:15PM	Glenda Wchrli	ACHD	Metalico Pittsburgh has an incident at the shredder today around 1:15PM. There was no noise. We are currently investigating. SRI# 202200015

Page 4 of 4

Metalico Pittsburgh Shredder Notification Log

				Metalico Pittsburgh had an incident at approximately 11:10 a.m., we are still investigating. There is no additional information to provide at this time. SRI# 202200016
9/8/2022	11:10AM	Glenda Wehrli	ACHD	
				Metalico Pittsburgh had an incident at approximately 1:30PM today. The material is believed to be from the loose pile. We are still investigating. SRI# 202200017
9/12/2022	1:30PM	Glenda Wehrli	ACHD	
				Metalico Pittsburgh had an Incident at approximately 7:35 am today. There is no additional information at this time. SRI# 202200019
9/20/2022	7:49AM	Kyle Michlovic	ACHD	
10400000	0.54.13.6	OL L WALE	ACITO	Metalico Pittsburgh had an incident at approximately 8:48AM. We are investigating. There is no additional information to provide at this time. SRI# 202200020
10/10/2022	8:56 AM	Glenda Wehrli	ACHD	intolination to provide at this time. Didn't consider

APPENDIX C Emission Calculations

Metalico Pittsburgh, Inc. Potential To Emit Calculations

Facility Name:	Metalico / Neville Island
County:	Allegheny
Municipality:	Neville Township
SIC:	5093 - Scrap and Waste Materials
NAICS:	423930 - Recyclable Material Merchant Wholesalers
	3100 Grand Avenue
Location Address:	Pittsburgh, PA 15225-1502
Latitude:	40 deg, 25 min, 15.63 sec N
Longitude:	-79 deg, 55 min, 18.78 sec W
UTM Zone:	17
UTM North:	4474.833
UTM East:	591.463

Metalico Pittsburgh, Inc. 3100 Grand Avenue Pittsburgh, PA 15225

Facility - Wide Potential To Emit Emissions Summary

Emissions Summary

			Emissions	Source (TPY)			
Parameter	C001: Clean Burn Unit	P001: Scrap Metal Processor	Storage Tanks	Road Dust (2)	Fugitive Emissions: Torch Cutting	Fugitive Emissions: Parts Washer	Total Emissions (TPY) ⁽¹⁾
SO2	1.55						1.55
NOX	0.23					ROMAN.	0.23
СО	0.03						0.03
PM	0.83	13.06	To the last	28.94	0.24		43.07
PM10	0.72	13.06		6.23	0.24		20.24
PM2.5	0.72	13.06		1.35	0.24		15.36
voc	0.01	46.80	0.01			0.12	46.94
Organic HAPS		1.33					1.33

Total Emissions is the sum of the pollutant from all emission sources; [C001 Pollutant (TPY)] + [P001 Pollutant (TPY) + [Storage Tanks (TPY)] + [Road Dust (TPY)] + [Fugitive Emissions (TPY)]

⁽²⁾ PM emissions from road dust is assumed to total suspended particulate matter (TSP) from paved and unpaved roads.

Clean Burn Unit / Air Atomizing Multi-Oil Burner

Operating Parameters

Operating rataliteters					
Subfacility ID:	C001				
Description:	Clean Burn Unit / Air Atomizing Multi-Oil Burner				
Hours of Operation	8,760	hrs/yr (1)			
Burner Heat Input Rate:	500,000	BTU/hr (1)			
Fuel Type	Waste Oil				
-	0.0033	TGB/hr ⁽²⁾			
Fuel Usage	28.91	TGB/yr ⁽²⁾			

Fuel Test Data

Ash	0.87 % (3)
Sulfur Content	1 % (4)
Heat Value	140,000 BTU/gal ⁽⁴⁾

			Potential Em	issions ⁽⁵⁾
Pollutant	Emissi	on Factor	lb/hr	TPY
SO2 ⁽⁶⁾	107	lb/TGB	0.35	1.55
NOX ⁽⁶⁾	16	lb/TGB	0.05	0.23
CO ⁽⁶⁾	2.1	lb/TGB	0.01	0.03
PM ⁽⁶⁾	57.42	lb/TGB	0.19	0.83
PM10 ⁽⁶⁾	49.59	lb/TGB	0.16	0.72
PM2.5 (6)	49.59	lb/TGB	0.16	0.72
PM (Condensable) (7)	7.83	lb/TGB	0.03	0.11
VOC (6)	1	lb/TGB	0.00	0.01
CO2 (6)	22,000	lb/TGB	72.60	317.99

⁽¹⁾ Hours provided by facility personnel. Burner rating manufacturer specifications (September 2013).

⁽²⁾ Annual Fuel Usage (TGB/yr) = [Hourly Fuel Usage (TGB/hr)] x [Annual Hours of Operation (hrs/yr)]. Based on spec sheet (Clean Burn CB-5000) maximum oil consumption is 3.3 GPH.

(3) Based on analytical report prepared by Alpha Analytical. Sample collected on 1/26/2022. Report dated 11/10/2022.

⁽⁴⁾ Due to limited data available, assumed sulfur content and heating value based on AP-42, Appendix A.

⁽⁵⁾ Hourly Emissions (lb/hr) = [Emission Factor (lb/TGB)] x [Fuel Consumption (TGB/hr)]; Annual Emissions (TPY) = [Hourly Emissions (lb/hr)] x [Hours of Operation (hr/yr)] x [1 ton/2000 lbs]

⁽⁶⁾ Emission Factor is based on AP-42, Tables 1.11-1, 1.11-2, and 1.11-3. For VOC = TOC.

 $^{^{(7)}}$ PM (Condensable) is the different between PM and PM10 (19.80 - 17.10 = 2.70 lb/TGB).

Scrap Metal Processor

029 030

031

032

033 034

035

036

Subfacility ID:	P001	
Description:	Scrap Metal Pro	cessor
Hours of Operation	2,000	hrs/yr (1)
	120	TPH ⁽²⁾
Process Rate	240,000	TPY ⁽²⁾

Identification of Emission Points: EP Description EP No. Truck Unloading Transfer to Infeed Conveyor 02 Shredder: Feed into Shredder 03 Shredder 04 Shredder to First Transfer Conveyor 05 06 First Transfer Conveyor to Pile First Transfer Conveyor to Magnet Separation System 07 Magnet Separation System to Second Transfer Conveyor 08 09 Second Transfer Conveyor to Cyclone Z-Box Cyclone Z-Box to Sorting Conveyors 010 011 Cyclone 012 Sorting Conveyors to Shuttle Conveyor 013 Shuttle Conveyor to Stacker Stacker to Ferrous Finished Goods Inventory (Pile) 013 Ferrous Finished Goods Inventory to Rail 014 015 Ferrous Finished Goods Inventory to Truck Ferrous Finished Goods Inventory to Barge 016 Magnet Separation System to Nonferrous Conveyor 017 Non Ferrous Conveyor to Batch Feeder 018 019 Batch Feeder to Trommel Feed Conveyor Trommel Feed Conveyor to Trommel 020 021 Trommel to Oversize Non-Ferrous Bin Trommel to Undersized Material Conveyor 022 023 Undersized Material Conveyor to Bivi-Tec Screen Bivi-Tec Screen to small fraction Steiner ECS 024 Small Fraction Steinert ECS to Stainless Transfer Conveyor 025 026 Stainless Transfer Conveyor to ISS ISS to Stainless Product Bin 027 ISS to Non-Metallic Bin 028

Small Fraction Steinert ECS to First Non-Ferrous Product Conveyor

Medium Size Material Conveyor to Middle Fraction Steinert ECS

Middle Fraction Steinert ECS to First Non-Ferrous Product Conveyor

First Non-Ferrous Product Conveyor to Second Non-ferrous Product Conveyor

Second Non-Ferrous Product Conveyor to Non-Ferrous Finished Goods Inventory

Middle Fraction Steinert ECS to Stainless Transfer Conveyor

Trommel to Medium Sized Material Conveyor

Cyclone to Non-Ferrous Conveyor

Scrap Metal Processor Potential To Emit (PTE) Calculations

Pollutant	Emission Factor	Process	Rate	Emissions	
Torra const	· · · · · · · · · · · · · · · · · · ·	TPH	TPY	(lb/hr)	(TPY)
PM ⁽³⁾				13.06	13.06
Mixed Feed Transfer Points (5 Transfers) ⁽⁴⁾	0.00257 lb/ton	120	240,000	1.54	1.54
Ferrous Transfer Points (10 Transfers) (5)	0.00257 lb/ton	90	180,000	2.31	2.31
Non-Ferrous Transfer Points (20 Transfers) (6)	0.00257 lb/ton	30	60,000	1.54	1.54
Shredder w/ Water Injection Control (7)	0.0472 lb/ton	120	240,000	5.66	5.66
Z-Box ⁽⁸⁾	2 ib/hr	90	180,000	2.00	2.00
VOC (a)	0.39 lb/ton	120	240,000	46.80	46.80
Organic HAPS (10)	0.0111 lb/ton	120	240,000	1.33	1.33

⁽¹⁾ Based on the Administrative Compliance Order of Consent issued by USEPA on December 9, 2022 and signed on January 19, 2023.

⁽²⁾ Hourly and annual throughputs based on the Administrative Compliance Order of Consent issued by USEPA on December 9, 2022 and signed on January 19, 2023.

⁽³⁾ PM Emissions = [Mixed Feed Transfer Points PM] + [Ferrous Transfer Points PM] + [Non-Ferrous Transfer Point PM] + [Shredder PM] + [Z-Box PM]

⁽⁴⁾ Hourly Mixed Feed Transfer Point PM (lb/hr) = [Transfer Point Emission Factor (lb/ton)] x [5 transfer points] x [Mixed Feed Throughput (ton/hr)]; Annual Mixed Feed Transfer Point PM (TPY) = [Transfer Point Emission Factor (lb/ton)] x [5 transfer points] x [Mixed Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Emission Factor based on Table D-10F in Institute of Scrap Recycling Industries, Inc. Title V Applicability Workbook. Washington DC: Institute of Scrap Recycling Industries, 1998.

⁽⁵⁾ Hourly Ferrous Feed Transfer Point PM (lb/hr) = [Transfer Point Emission Factor (lb/ton)] x [10 transfer points] x [Ferrous Feed Throughput (tons/hour)]; Annual Ferrous Feed Transfer Point PM (TPY) = [Transfer Point Emission Factor (lb/ton)] x [10 transfer points] x [Ferrous Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Emission Factor based on Table D-10F in Institute of Scrap Recycling Industries, Inc. Title V Applicability Workbook. Washington DC: Institute of Scrap Recycling Industries, 1998. Assumes 75% of the mixed feed rate is ferrous material.

⁽⁶⁾ Hourly Non-Ferrous Feed Transfer Point PM (lb/hr) = [Transfer Point Emission Factor (lb/ton)] x [20 transfer points] x [Non-Ferrous Feed Throughput (tons/hr)]; Annual Non-Ferrous Feed Transfer Point PM (TPY) = [Transfer Point Emission Factor (lb/ton)] x [20 transfer points] x [Non-Ferrous Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Emission Factor based on Table D-10F in Institute of Scrap Recycling Industries, Inc. Title V Applicability Workbook. Washington DC: Institute of Scrap Recycling Industries, 1998. Assumes 25% of the mixed feed rate is non-ferrous material.

⁽⁷⁾ Hourly Shredder w/ Water Injection Control PM (lb/hr) = [Shredder Emission Factor (lb/ton)] x [Mixed Feed Throughput (tons/yr)]; Annual Shredder w/ Water Injection Control PM (TPY) = [Shredder Emission Factor (lb/ton)] x [Mixed Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Emission Factor based on testing conducted on a similar source (General Iron Test Report, 2018).

⁽⁸⁾ Z-Box PM (TPY) = [Z-Box Emission Factor (lb/hr)] x [Hours of Operation (hrs/yr)] x [1 ton/2000 lbs]. Emission Factor based on information provided by facility personnel.

⁽⁹⁾ Hourly VOC Emissions (TPY) = [VOC Emission Factor (lb/ton)] × [Mixed Feed Throughput (tons/hr)]. Annual VOC Emissions (TPY) = [VOC Emission Factor (lb/ton)] x [Mixed Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Emission Factor is on a propane basis and is based on the Administrative Compliance Order of Consent Signed issued by USEPA on December 9, 2022.

⁽¹⁰⁾ Hourly Organic HAP Emissions (lb/hr) = [Organic HAP Emission Factor (lb/ton)] x [Mixed Feed Throughput (tons/hr)] x [1 ton/2000 lbs]. Annual Organic HAP Emissions (TPY) = [Organic HAP Emission Factor (lb/ton)] x [Mixed Feed Throughput (tons/yr)] x [1 ton/2000 lbs]. Organic HAPs emission factor is based on 2.85% of VOCs, in the similar source test from ISRI Title V Workbook, Table D-11.F applied to the VOC EF above.

Routine Losses From Fixed Roof Tanks (AP 42, Ch.7, 7.1.3.1)

VOC Emissions Summary	Throu	Throughput		
Fuel Type	gal/yr	gal/day (1)	(TPY)	
On-Road Diesel	73,000	200	4.32E-03	
Off-Road Diesel	113,200	310	2.77E-03	
Used Oil	20,400	56	1.09E-04	
Cumulative	206,600	566	0.01	

Storage Tank Calculations

Local atmospheric properties ¹	
Average daily maximum ambient temperature, TAX (*R)	520.1
Average daily minimum ambient temperature, TAN (°R)	502.5
Average daily total insolation on a horizontal surface 1 (Btu/(ft^2/day))	1.170

¹ From AP 42 Table 7.1-7 for Pittsburgh, PA, assume storage tank usage rate consistent across calendar year

ge tank properties	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Contents	On-road diesel	Off-road diesel	Off-road diesel	Used oil	Off-road diesel	On-road diesel
Location	Metals	Metals	Metals	Shredder	Shredder	Shredder
Orientation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Capacity (gal)	1,000	3,000	3,000	3,000	10,000	10,000
Shell diameter, D (ft)	4.00	5.33	5.33	5.50	10.00	10.00
Shell length or height, H (ft)	10.67	18.17	18.17	12.00	17.00	17.00
Shell color/shade	Gray/Medium	Red	Yellow (Beige)	Yellow (Beige)	White	White
Tank surface solar absorptance, α (dimensionless) 1	0.71	0.9	0.42	0.42	0.25	0.25
Vapor molecular weight, MV (lb/lb-mole) 2	130	130	130	130	130	130
Vapor pressure (mmHg) ³	1	0.4	0.4	0.1	0.4	1
Vapor pressure, PVA (psia) 4	0.019	0.008	0.008	0.002	0.008	0.019
Annual net throughput (gal/yr) 5	3,000	22,800	20,400	20,400	70,000	70,000
Annual net throughput, Q (bbl/yr) 6	71.43	542.86	485.71	485.71	1666.67	1666.67

¹ From AP 42, Table 7.1-6, based on paint color, assume average paint condition and same color for whole tank.

⁶ Conversion: bbl/yr = (gal/yr) / (42 gal/bbl)

Routine lo	osse <u>s</u> for	horizontal	storage	tanks	(VOC's)
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Total routine losses, LT (TPY) Cumulative routine losses, LT (TPY)	5.776-04	0.735-04	0.		2.552-05	3.542 0.
	3.77E-04	6.73E-04	5.15E-04	1.09E-04	1.58E-03	3.94E-03
Total routine losses, LT (lb/yr)	0.75	1.35	1.03	0.22	3.15	7.88
Net working loss throughput, VQ (ft3/yr)	401.00	3,047.60	2,726.80	2,726.80	9,356.67	9,356.67
Annual sum of increases in liquid level, ΣΗQI (ft/yr) 4	9.40	31.45	28.14	41.32	55.04	55.04
Number of turnovers per year, N (dimensionless)	2.99	7.51	6.72	9.56	7.01	7.01
Vent setting correction factor, KB (dimensionless)	1.00	1.00	1.00	1.00	1.00	1.00
Working loss product factor, KP (dimensionless)	1.00	1.00	1.00	1.00	1.00	1.00
Working loss turnover factor, KN (dimensionless)	1.00	1.00	1.00	1.00	1.00	1.00
Working loss, LW (lb/yr)	0.18	0.55	0.50	0.12	1.71	4.26
Liquid bulk temperature, TB (*R) 3	513.79	514.46	512.77	512.77	512.18	512.18
Average daily ambient temperature, TAA (*R)	511.30	511.30	511.30	511.30	511.30	511.30
Average vapor temperature, TV (°R) 2	519.52	521.72	516.16	516.16	514.20	514.20
Stock vapor density, WV (lb/ft3)	4.51E-04	1.80E-04	1.82E-04	4.54E-05	1.82E-04	4.56E-0
Vapor space outage, HVO (ft)	1.57	2.09	2.09	2.16	3.93	3.93
Vented vapor saturation factor, KS (dimensionless)	1.00	1.00	1.00	1.00	1.00	1.00
Effective height, HE (ft)	3.14	4.19	4.19	4.32	7.85	7.85
Effective diameter, DE (ft)	7.37	11.11	11.11	9.17	14.71	14.71
Vapor space expansion factor, KE (day^-1) 1	0.05	0.06	0.04	0.04	0.03	0.03
Standing loss, LS (lb/yr)	0.57	0.80	0.54	0.09	1.45	3.62
	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6

¹ If the liquid stored in the fixed roof tank has a true vapor pressure less than 0.1 psia and the tank breather vent settings are not greater than ±0.03 psig, Equation 1-12 or Equation 1-13 may be used with an acceptable loss in accuracy. If the tank location and tank color and condition are known, KE may be calculated using equation 1-12 in lieu of Equation 1-5.

² From AP 42, Table 7.1-2, using values of No. 2 Fuel Oil for Diesel and No. 6 Fuel Oil for Used Oil.

³ From SDS

⁴ Conversion: 1 psia = 51.715 mmHg

 $^{^{5}}$ Estimated from pump utilization records.

 $^{^{2}}$ API assigns a default value of H/D = 0.5 and an assumption of $\alpha R = \alpha S$, resulting in the simplified equation for an uninsulated tank (Equation 1-33).

³ For uninsulated fixed roof tanks known to be in approximate equilibrium with ambient air, heat gain to the bulk liquid from insolation is almost entirely through the tank shell; thus the liquid bulk temperature is not sensitive to HS/D and may be calculated using Equation 1-31.

⁴ If ΣHQI is unknown, ΣHQI can be estimated from pump utilization records.

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Summary of equations from AP 42, Chapter 7

Total routine losses, LT

LT=LS+LW [Eq. 1-1]

LT = total routine losses, lb/yr

LS = standing losses, lb/yr, see Equation 1-2

LW = working losses, lb/yr, see Equation 1-35

Standing loss, LS

LS=365*KE*((PI/4)*D^2)*HVO*KS*WV [Eq. 1-4]

LS = standing loss, lb/yr

KE = vapor space expansion factor, per day, see Equation 1-5, 1-12, or 1-13

D = diameter, ft, use DE from Equation 1-14 for horizontal tanks

HVO = vapor space outage, ft, see Equation 1-16; use HE/2 from Equation 1-15 for horizontal tanks

KS = vented vapor saturation factor, dimensionless, see Equation 1-21

WV = stock vapor density, lb/ft3, see Equation 1-22

365 = constant, the number of daily events in a year, (days/year)

Vapor space expansion factor, KE

KE=0.0018*ΔTV=0.0018*(0.7*(TAX-TAN)+0.02*α*I) [Eq 1-12]

KE = vapor space expansion factor, per day

ΔTV = average daily vapor temperature range, °R

TAX = average daily maximum ambient temperature, °R

TAN = average daily minimum ambient temperature, °R

α = tank surface solar absorptance, dimensionless I = average daily total insolation on a horizontal surface, Btu/(ft2/day)

0.0018 = constant, (°R)^-1

0.7 = constant, dimensionless

0.02 = constant, (°R ft2/day)/Btu

Effective diameter, DE (for horizontal tanks)

DE=sqrt((L*D)/(PI/4)) [Eq 1-14]

DE = effective tank diameter, ft

L = length of the horizontal tank, ft (for tanks with rounded ends, use the overall length)

D = diameter of a vertical cross-section of the horizontal tank, ft

Effective height, HE (for horizontal tanks)

HE=(PI/4)*D [Eq 1-15]

HE = effective height of an equivalent upright cylinder (for horizontal cylinders)

Vented vapor saturation factor, KS

KS=1/(1+0.053*PVA*HVO) [Eq 1-21]

KS = vented vapor saturation factor, dimensionless

PVA = vapor pressure at average daily liquid surface temperature, psia; see Notes 1 and 2 to Equation 1-22 HVO = vapor space outage, ft, see Equation 1-16; use HE/2 from Equation 1-15 for horizontal tanks

0.053 = constant, (psia-ft)^-1

Vapor space outage, HVO

HVO=HS-HL+HRO [Eq 1-16]

HVO = vapor space outage, ft; use HE/2 from Equation 1-15 for horizontal tanks

HS = tank shell height, ft

HL = liquid height, ft

HRO = roof outage, ft

Stock vapor density, WV

WV=(MV*PVA)/(R*TV) [Eq 1-22]

WV = vapor density, lb/ft3

MV = vapor molecular weight, lb/lb-mole; see Note 1

R = the ideal gas constant, 10.731 psia ft3/lb-mole °R

PVA = vapor pressure at average daily liquid surface temperature, psia; see Notes 1 and 2 to Equation 1-22

TV = average vapor temperature, °R; see Note 6

<u>Average vapor temperature, TV</u> TV=0.7*TAA+0.3*TB+0.009*α*I [Eq 1-33]

TV = average vapor temperature, °R

TAA = average daily ambient temperature, °R

TB = liquid bulk temperature, °R

 α = average tank surface solar absorptance, dimensionless

I = average daily total insolation factor, Btu/(ft2/day)

Average daily ambient temperature, TAA

TAA=(TAX+TAN)/2 [Eq 1-30]

TAA = average daily ambient temperature, *R

TAX = average daily maximum ambient temperature, °R

TAN = average daily minimum ambient temperature, "R

Liquid bulk temperature, TB

TB=TAA+0.003*aS*I [Eq 1-31]

TB = liquid bulk temperature, °R

TAA = average daily ambient temperature, °R, as calculated in Equation 1-30

 $\alpha S = tank \ shell \ surface solar absorptance, dimensionless; see Table 7.1-6$

I = average daily total insolation factor, Btu/(ft2/day); see Table 7.1-7

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Working loss, LW LW=VQ*KN*KP*WV*KB [Eq 1-35]

LW = working loss, lb/yr

VQ = net working loss throughput, ft3/yr, see Note 1 of Equation 1-35

KN = working loss turnover (saturation) factor, dimensionless

for turnovers > 36, KN = (180 + N)/6N

for turnovers ≤ 36, KN = 1

N = number of turnovers per year, dimensionless

KP = working loss product factor, dimensionless, for crude oils, KP = 0.75, for all other organic liquids, KP = 1

WV = vapor density, lb/ft3, see Equation 1-22

KB = vent setting correction factor, dimensionless, for open vents and for a vent setting range up to $\pm\,0.03$ psig, KB = 1

Number of turnovers per year, N

N=ΣHQI/(HLX-HLN) [Eq 1-36]

N = number of turnovers per year, dimensionless

 Σ HQI = the annual sum of the increases in liquid level, ft/yr

HLX = maximum liquid height, ft, for horizontal tanks use $(\pi/4)^*D$

HLN = minimum liquid height, ft, for horizontal tanks use 0

Annual sum of the increases in liquid level, ΣΗQI ΣΗQI=(5.614*Q)/((PI/4)*D^2) [Eq 1-37]

EHQI = the annual sum of the increases in liquid level, ft/yr 5.614 = the conversion of barrels to cubic feet, ft3/bbl

Q = annual net throughput, bbl/yr

For horizontal tanks, use DE (Equation 1-14) in place of D in Equation 1-37

Net working loss throughput, VQ VQ=(ΣHQI)*(PI/4)*D^2 [Eq 1-38]

VQ = annual sum of the increases in liquid level, ft3/yr

ΣHQI = the annual sum of the increases in liquid level, ft/yr

DE should be used for horizontal tanks in place of D in Equation 1-38

Road Dust

Paved Road Parameters

Paved Road Distance (1)	0.38 miles
Estimated Total Vehicle Miles Traveled (VMT) (1)	50,000 VMT/yr
Particle Size Multiplier (k) ⁽²⁾	
PM-30	0.011 lb/VMT
PM-10	0.0022 lb/VMT
PM-2.5	0.00054 lb/VMT
Road Surface Silt Loading (sL) (3)	9.7 g/m ²
Ave. Weight of Vehicles Traveling Road (W) (4)	12.21 tons
Light Duty Gasoline Vehicles (LDGV) (5)	2 tons
Heavy-Duty Gasoline Vehicles (HDGV) (1)(6)	6.38 tons
Heavy-Duty Diesel Vehicles (HDDV) (1)(6)	28.25 tons
Number of "Wet" days with at least 0.01 in during	
averaging period (P) (7)	150 days
Days in Averaging Period (N)	365 days

⁽¹⁾ Based on information provided by facility personnel.

⁽²⁾ Based on AP-42, Table 13.2.1-1.

 $^{^{(3)}}$ Based on AP-42, Table 13.2.1-3. Assume industrial road at an iron/steel production facility.

⁽⁴⁾ Average weight of LDGV, HDGV, and HDDV.

⁽⁵⁾ Light-duty gasoline vehicle (LDGV) is an automobile, pickup truck, or any other general vehicle with a weight of less than 4 tons. Assume light-duty gasoline vehicles weigh on average 2 tons.

⁽⁶⁾ Heavy-duty vehicle is a truck or other vehicle 4 tons or greater, including the weight of the material being transferred.

⁽⁷⁾ Based on AP-42, Figure 13.2.1-2.

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Unpaved Road Parameters

Unpaved Road Parameters	
Unpaved Road Distance (1)	0.75 miles
Estimated Total Vehicle Miles Traveled (VMT) (1)	1,700 VMT/yr
Empirical Constant k (2)	
PM-30	4.9 lb/VMT
PM-10	1.5 lb/VMT
PM-2.5	0.15 lb/VMT
Empirical Constant a (2)	
PM-30	0.7
PM-10	0.9
Empirical Constant b (2)	
PM-30	0.45
PM-10	0.45
Surface Material Silt Content (s) (3)	13.5 %
Number of "Wet" days with at least 0.01 in during	
averaging period (P) (4)	150 days
Ave. Weight of Vehicles Traveling Road (W) (5)	7.0 tons
Light Duty Gasoline Vehicles (LDGV) (6)	2 tons
Heavy-Duty Gasoline Vehicles (HDGV) (1)(7)	2.5 tons
Heavy-Duty Diesel Vehicles (HDDV) (1)(7)	16.5 tons

⁽¹⁾ Based on information provided by facility personnel.

⁽²⁾ Based on AP-42, Table 13.2.2-2.

 $^{^{(3)}}$ Based on AP-42, Table 13.2.2-3. Assume surface silt content is the average between 1.8 - 25.2% for industrial roads.

⁽⁴⁾ Based on AP-42, Figure 13.2.2-1.

⁽⁵⁾ Average weight of LDGV, HDGV, and HDDV.

⁽⁶⁾ Light-duty gasoline vehicle (LDGV) is an automobile, pickup truck, or any other general vehicle with a weight of less than 4 tons. Assume light-duty gasoline vehicles weigh on average 2 tons.

 $^{^{(7)}}$ Heavy-duty vehicle is a truck or other vehicle 4 tons or greater, including the weight of the material being transferred.

Road Dust Potential To Emit (PTE) Calculations

Pollutant	Emission Factor (E) (lb/VMT)	Emissions (TPY) ⁽¹⁾
PM-30 ⁽²⁾		28.94
Paved Roads (3)	1.00	25.04
Unpaved Roads (4)	4.59	3.90
PM-10		6.23
Paved Roads ⁽³⁾	0.20	5.01
Unpaved Roads (4)	1.44	1.22
PM-2.5		1.35
Paved Roads (3)	0.05	1.23
Unpaved Roads (4)	0.14	0.12

⁽¹⁾ Emissions (TPY) = [Emission Factor E (lb/VMT)] \times [VMT/yr] \times [1 ton / 2000 lbs]

⁽²⁾ Assume PM-30 = total suspended particulate matter (TSP).

⁽³⁾ Based on AP-42, Chapter 13.2.1, Equation 2. $E = [k(sL)^{0.91} x (W)^{1.02}] (1-P/4N)$

⁽⁴⁾ Based on AP-42, Chapter 13.2.2, Equations 1a and 2. $E = k(s/12)^a(W/3)^b[(365-P)/365]$

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Torch Cutting

Subfacility ID:	Miscellaneous Emissions
Description:	Torch Cutting Fugitives

Hours of Operation (1)	8,760 man hrs.

Pollutant	Emission Factor (lb/hr cutting time)	Emissions (TPY) ⁽³⁾
PM	0.06	0.24

⁽¹⁾ Assumed 8,760 hours/yr.

⁽²⁾ Emission factor based on Table D-5 in Institute of Scrap Recycling Industries, Inc. Title V Applicability Workbook. Washington DC: Institute of Scrap Recycling Industries, 1998.

Torch cutting activities occur indoors; assume 90% of PM emissions is emitted to atmosphere and 10% of PM emissions settle inside building. Emissions (TPY) = [Emission Factor (lb/hr cutting time)] x [Annual Process Rate (man hrs/yr)] [0.90] x [1 ton/2000 lbs]

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Table 7 Parts Washer

Subfacility ID:	Miscellaneous Emissions
Description:	Parts Washers

Operating Information (1)

Number of Parts Washers On Site	2		
Capacity of each Parts Washer	15-20	gal	
Solvent	ZEP DYNA 143		
Annual Solvent Throughput	35	gal/yr	

⁽¹⁾ Based on information provided by facility personnel.

				voc
		Density	voc	Emissions
Solvent	Usage (gal)	(lb/gal) ⁽¹⁾	Fraction (1)	(TPY) (2)
Zep Dyna 143	35	6.59	1.00	0.12

⁽¹⁾ Based on solvent safety data sheet. Assumed VOC content is 100%.

VOC (TPY) = [Annual Usage (gal/yr)] x [Density (lb/gal)] x [VOC Fraction] x [1 ton/2000 lbs]

APPENDIX D Technical Support Documents



4109 Capital Circle Janesville, WI USA 53546 www.cleanburn.com

SPECIFICATIONS FOR CLEAN BURN COIL TUBE BOILER MODEL CB-500-CTB

PART 1 - GENERAL

- 1.1 <u>DEFINITIONS:</u> Throughout this bid specification the word "shall" appears frequently. The word "shall" indicates a mandatory requirement as per the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable.
- **REQUIREMENTS:** General provisions of the purchase specifications, including general and other conditions, delivery requirements, shipping and demurrage charges will be under separate cover and shall apply.
- 1.3 SCOPE: This bid specification covers but is not limited to the furnishing of a CB-500-CTB, 500,000 BTU/hr (input) Coil Tube Boiler Package. This package shall include the following:
 - One (1) CB-500-CTB 500,000 BTU/hr (input) low mass boiler (370,000BTU/hr output)
 - > One (1) CB-551-H5 used-oil firing burner
 - One (1) Honeywell # L4006H-1004 100 to 240 °F high limit aquastat with manual reset button
 - > One (1) Honeywell # L4006H-2148 100 to 200 °F operating aquastat
 - > Two (2) Honeywell # 123870A 3/4" NPT well adapters
 - One (1) ITT McDonnell & Miller # 750P-MT-120 electronic low water cut-off with the PA-800 remote probe (included) with manual reset and testing buttons
 - One (1) ITT McDonnell & Miller # FS4-3 or Taco flow switch and includes a stainless steel paddle
 - > One (1) Honeywell # AT40C 115 vac transformer with a 24 vac output coil
 - > One (1) Honeywell # R8222D 120 vac relay with a 24 vac coil
 - One (1) Honeywell # ST82A spst 10 minute timed delayed (cut-off) circulator relay
 - > One (1) Dpdt (on / on) 125 vac / 50-60 hz / 1 ph toggle switch rated @ 15 amps
 - One (1) Conbraco # 10-301-05 30 psig 550,000 BTU/hr rated pressure relief valve
 - > One (1) 31/4" diameter 1/2" NPT horizontal mounted tridicator
 - > One (1) Ceramic target (installed on the rear door of appliance)

- > One (1) Ceramic combustion chamber sleeve
- > One (1) Combustion chamber sleeve mounting stand
- One (1) Suntec used-oil pump assembly (Refer to part 2, Section 2.5 for the liste d pump options)
- One (1) Lenz # DH750-100 canister filter with a washable 100-mesh stainless steel screen filter element
- One (1) Oil vacuum gauge
- > One (1) 3/4" x 3/4" in-line brass check valve
- One (1) 3/2" in-line washable 50-mesh stainless steel screen check valve filter element
- > One (1) Watts # 700014 11/2" fip x 11/2" fip bronze swing check valve
- One (1) Field Type 'M' 9" barometric damper control
- One (1) 9" x 10" reduced collar (for barometric damper)
- > One (1) 10" 24-gauge galvanized sheet metal cap
- One (1) Field Controls DI-3 Draft Inducer
- > One (1) CB-500-CTB Operator's Manual
- > Burner oil line and airline components
- Miscellaneous piping, valves, and fittings (boiler installed)
- > Miscellaneous bolts and fittings for assembly / installation of the appliance

Note: This is the standard package for the CB-500-CTB Coil Tube Boiler Package. You must order the mounting stand assembly, the circulator, and the stackable adapter bracket kit separately. (Refer to Part 2 – Sections 2.1.4, 2.1.5, and 2.1.6.)

- 1.4 CODES AND REGULATIONS: The installation of this ap pliance shall be made in accordance with the ma nufacturer's instructions, as well as in accordance with all Federal, State, Regional, or Local Laws and / or Regulations acceptable to the Authority Having Jurisdiction (AHJ) and shall be accomplished only by a qualified, certified, and competent heating technician experienced in making such installations as per NFPA 31—Chapter 4—Sections 4.3.2 and 4.3.3 and the Codes and Regulations that are listed in Part 1—Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 1.4.1 The design, materials and workmanship of the app liance, burner unit, and the various other accessories furnished by Cle an Burn, LLC., as well as the in stallation of the appliance, shall fully comply with the requirements of UL Standard 296A (Und erwriter's Laboratories File # MH 15393 and / or Underwriter's Laboratories of Canada File # CMP243) and NFPA 31 Chapter 12 Sections 12.1 through 12.4.3, ASME Section IV Boiler Code for Pressure Vessels Manual, and the ASME Controls and Safety Devices Manual (CSD-1).
- 1.4.2 The installation shall fully comply with the following NFPA Codes: 30 Flammable and Combustible Liquids, 30A Motor Fuel Dispensing Facilities and Repair Garages, 31 Standard for the Installation of Oil-Burning Equipment, 70 National Electrical Code, 88A Standard for Parking Structures, 88B Standard for Repair Garages, and 211 Standard for Chim neys, Fireplaces, Vents, and Solid-Fuel Burning Appliances as applicable.
- 1.4.3 The installation shall fully comply with the following International Codes: International Building Code, International Mechanical Code, International Fire Code, and the International Fuel Gas Code as applicable.

- 1.4.4 The installation shall fully comply with the following CAN / CSA Standard s (when installing the appliance in Canada): B139-00 (ap proved October 2001) Installation Code for Oil-Burning Equipment, B140.0-M87 (reaffirmed 2001) General Requirements for Oil-Burning Equipment, B140.7.2-1967 (reaffirmed 1998), and C22.1-02 Canadian Electric Code Part 1 as applicable.
- 1.5 RIGGING AND UNLOADING: Vendors shall deliver to the site all equipment, components, and devi ces specified herein. Ri gging and / o r off-loading will be the responsibility of the purchaser or the purchasers designated agent.

PART 2 - PRODUCT

2.2.8

BOILER: The appliance shall be shipped assembled as a packaged, low mass coil tube 2.1 boiler, suitable for firing used-oils and #2 - #5 heating fuels. The appliance shall include a ceramic combustion chamber sleeve, a combustion 2.1.1 chamber sleeve mounting stand, and a ceramic combustion chamber target. The appliance shall be UL / ULC listed and tested to burn the used-oils as per NFPA 31, 2,1.2 Chapter 12, Section 12.4.1, 12.4.2, and 12.4.3. The appliance shall be complete with one used-oil burner assembly, one used-oil pump 2.1.3 assembly, and all devices and controls required for safe and efficient operation of the appliance as per ASME CSD-1. The appliance does not come with a mounting stand assembly as a standard item. When 2.1.4 ordering the appliance, you must also or der a mounting stand assembly (CB Part # 90206). The appliance does not come with a ci rculator installed on the appliance as a standard 2.1.5 item. When ordering the appliance, you must also order a circulator assembly: > TACO 1400-50/2 circulator 37 gpm @ 22 ft. head (CB Part # 35130) When installing more than one appliance on the job site, you can stack this appliance two 2.1.6 high by ordering the stacking adapter bracket kit (CB Part # 11578). CONSTRUCTION: The appliance shall be of standard construction low mass coil tube 2.2 design, and it shall be built in accordance with the ASME Section IV - Boil er Code for Pressure Vessels. The appliance shall be constructed to operate as a three-pass heat exchanger design. 2.2.1 The combustion chamber and shell shall be made from a combination of 11-gauge, 12-2.2.2 gauge, and 14-gauge steel. The appliance shall have a combustion chamber liner and a liner protector that shall be 2.2.3 made from 16-gauge 304 stainless steel. The appliance shall have a ceramic combustion chamber sleeve and mounting stand and 2.2.4 a ceramic combustion target. A 3" dia meter opening, with a spring closing flame observation port door shall be 2.2.5 provided at the front of the appliance on the front swing out door. This port shall be located on the left side of the front swing out door just above and to the left of the burner so that an inspection of the combustion chamber area can be made, both when the appliance is in operation or at rest. The front door shall be of a hinged, swing out design and shall be large enough to permit 2.2.6 access for the inspection and maintenance of the coil tub e assembly, ceramic combustion sleeve and mounting stand, and the ceramic target. The rear door shall be of a bolt on type and include the ceramic target. 2.2.7

fiberboard approved insulating material.

The front and rear door panels shall be insulated with a 2" thick piece of 2,300 °F ceramic

- 2.2.9 The appliance shall use an approved insulation gasket material of 2,300 °F to seal all assembled sections of the appliance, and the entire appliance shall be insulated and sealed tight to prevent the escape of heat and combustion gases.
- 2.2.10 The coil tube shall be fabricated from 195' long seamless cold drawn 1½" diameter Schedule 40 SA 106B carbon steel tubing and shall carry the ASME 'H' Stam p Certification and the National Board Number.
- 2.2.11 Each coil tube assembly shall be coiled as a single unit and h ydro tested as per the requirements of ASME Section IV Boiler Code for Pressure Vessels.
- 2.2.12 The coil tube assembly shall be rem ovable from the appliance to facilitate inspection of the coil tube assembly or for the repair and / or replacement of the coil tube assembly.
- 2.2.13 The appliance shall be provided with a wrap around 22-gauge steel jacket with a baked on powder coat finish.
- 2.2.14 The size, capacity, and operation of the appliance shall be designed as shown in the following:
 - > 500,000 BTU/hr input rating
 - > 370,000 BTU/hr output rating
 - > 70 psig tested design pressure
 - 30 psig maximum operating pressure
 - > 97 square feet of heating surface
 - > 20 gallon water volume capacity
 - > 37 gpm design water flow rate @ 22 feet of head
 - > 3,57 gph oil consumption
 - Dedicated spst 20 amp electrical circuit requiring the installation of a 12/2 copper power supply wire rated @ 115 vac / 60 hz / 1 ph (standard)
 - Dedicated spst 30 amp electrical circuit requiring the installation of a 10/2 copper power supply wire rated @ 115 vac / 60 hz / 1 ph (optional – used when installing draft inducers or on-board compressors)
 - 2.5 cfm compressed air requirement @ 25 psig
 - > 10" stack size
 - Cabinet dimensions (from burner end without the burner, boiler stand, or accessories installed) 73" long x 44½" wide x 41¾" high
 - Overall dimensions (from burner end with the burner, boiler stand, and all accessories installed) 85½" long x 51" wide x 60¾" high
 - Approximate shipping weight 1,760 lbs
- 2.3 INSTALLATION: The appliance shall be installed in an approved boiler room as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.3.1 The appliance shall be installed and mounted on a level foundation base capable of supporting and distributing the weight of the appliance as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.3.2 The appliance shall be installed and mounted on floors of non-combustible construction (concrete) only as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.

- 2.3.3 The appliance shall not be raised above the floor level (except for the approved mounting stand assembly), suspended or hung from the ceiling, installed on an elevated platform or stand, or placed over top of any equipment, an office space, parts room, etc., or installed in any other manner other than as directed by the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.3.4 The appliance shall be supplied with the proper amount of combustion air to permit the satisfactory combustion of the oil, the prop er venting of the com bustion gases, and to maintain a safe ambient temperature within the space that the appliance is installed in as per the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable.
- When installing this appliance in a n unconfined space, the minimum amount of combustion air supplied to this appliance shall be from one permanent opening, installed within 12" of the ceiling of the room, totaling 110 sq uare inches at a rate of 268 cfm o f free air for a single appliance application as per the Codes and Regulations that are listen in Part 1 Section 1.4 t hrough 1.4.4 of this bid spe cification as applicable. When installing more than one appliance into the same unconfined space, you must adjust these minimum requirements to accept all of the appliances within that space.
- When installing this appliance in a confined space, the minimum amount of combustion air supplied to this appliance shall be from two permanent openings, one opening installed within 12" of the ceiling of the room and one opening installed within 12" of the floor of the room, with ea ch opening totaling 138 square inches at a rate of 537 cfm of free air for a single appliance application as per the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable. When installing more than one appliance into the same confined space, you must adjust these minimum requirements to accept all the appliances within that space.
- When installing louvers and grills to bring the combustion air into the room and the actual free area of the louver or grill is not known, it is understood that wooden louvers and grills will have a free area of 25% while metal louvers and grills will have a free area of 75% as per the Codes and Regulations that are listed in Part 1 section 1.4 through 1.4.4 of this bid specification as applicable.
- 2.3.8 All louvers and grills, regardless of the material that they are made from, shall be fixed in the open position, or be interlocked with the appliance(s) so that they will open automatically during the operation of the appliance(s). The interlock must be placed on the driven member as per ASME CSD-1 Part CG Section CG-260-b and the Codes and Regulations that a re listed in Part 1 Section 1.4 th rough 1.4.4 of this bild specification as applicable.
- When installing a mechanical fan assembly to provide the combustion air, the fan shall be interlocked with the appliance's burner(s) so that combustion air is proven before and during the operation of the appliance(s) as per ASME CSD-1 Part CG Section CG-260-c and the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable.
- 2.3.10 The combustion air shall be supplied into this boiler room as per the requirements of ASME-CSD-1 Part CG Section's CG-260-a, 260-b, and 260-c and the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable.

- 2.3.11 The appliance shall be installed to fit into the space available with the following minimum clearances from combustible surfaces and / or for the servicing of the appliance:
 - > Top 18"
 - > Front (burner) side 48"
 - > Rear (stack) side- 58"
 - > Left side 6" (36" may be required by your local code)
 - Right side 36"
 - > Stack -- 18"
 - ➢ Bottom − 6*
 - All supply and return piping 1 1/2"
- 2.3.12 Installation, operating, and maintenance permits may be required by the Authority Having Jurisdiction (AHJ). It is the responsi bility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- 2.3.13 Installation inspections of the finished job may also be required by the Authority Having Jurisdiction (AHJ). It is the responsi bility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- 2.3.14 On-site certification of the appliance may be required by the Authority Having Jurisdiction (AHJ). It is the re sponsibility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- 2.3.15 It is the resp onsibility of the purch aser, designated agent, contractor, or installer of the appliance to check with the Authorit ies Having Jurisdiction (AHJ) as to the proper procedures to follow for the completion of this installation.
- 2.4 <u>USED-OIL BURNER:</u> Clean Burn, LLC shall supply one complete used-oil burner, factory assembled, and suitable for the burning of used-oils.
- 2.4.1 The used-oil burner shall be UL / ULC listed and tested to burn the following used-oils:
 - > #2, #4, & #5 fuel oils
 - Used crankcase oils up to SAE 50 weight
 - Used automatic transmission fluids
 - > Used hydraulic oils
- 2.4.2 The used-oil burner shall be constructed, wired, and fire tested by Clean Burn, LLC.
- 2.4.3 The used-oil burner shall be shipped loose for field mounting and packaged in a separate carton.
- 2.4.4 Clean Burn, LLC shall manufacture the used-oil burner with quantity, capacity, and ratings as per schedule.
- 2.4.5 The used-oil burner shall be equipped with a high resistance, flame retention, all stainless steel firing head, with a conical stainless steel diffuser, and shall operate with no moving parts. The flame pattern shall be such that impingement will not occur on the cham ber walls at any load within the specified range of operating conditions.
- 2.4.6 The used-oil burner nozzle assembly shall contain the oil nozzle, the nozzle adapter, the nozzle heater and thermostat, and the single piece electrode and shall be made in such a way as to allow the nozzle assembly to be removable from the burner as a single unit.

- 2.4.7 The used-oil burner shall be equipped with both oil and air safety devices to prevent the operation of the burner should either of these items fail durin g their normal function. These devices shall be controlled by the oil primary control and will stop the operation of the burner upon flame or air failure.
- 2.4.8 The used-oil burner shall be controlled by a flame sensor device (a cadmium sulfide cell) which will stop the burner when a flame failure occurs.
- 2.4.9 The flame sensor shall be connected to the primary safety control that shall fail in an open position and "lock-out" the control.
- 2.4.10 The primary safety control shall require the manual resetting of the safety switch anytime the burner has a no-oil or no-spark (ignition) condition.
- 2.4.11 If the primary safety control fails while in operation but the flame has been established and proven, the primary safety control shall be of a recycling type which will allow the burner up to three retries for ignition before the control will "lock-out".
- 2.4.12 The primary safety control shall be completely wired and tested by the manufacturer for this safety function.
- 2.4.13 Each used-oil burner shall be fully in accord with the requirements of and a pproved by Underwriter's Laboratories and Underwriter's Laboratories of Canada.
- 2.4.14 The used-oil burner shall be factory fabricated and be complete with the following:
 - > One (1) Single burner / fan ho using assembly with side mounted combustion air inlets
 - > One (1) Stainless steel flame retention head
 - > One (1) Hinged swing out burner mounting bracket
 - One (1) 4-wire power cord disconnect assembly with connector plug and receptacle
 - One (1) Burner motor with a 1/10th hp motor @ 3,000 rpm TENV, DP, PSC, sealed, ball bearing, ccw-se rotation, N frame, stud mounted, 3.3" diameter motor, with a 7.5 uf (mfd) / 370 vac capacitor
 - > One (1) Integral squirrel cage draft fan
 - > One (1) Set of dual inner /outer combustion draft control plates
 - > One (1) Heated oil block assembly
 - > One (1) 400 watt thermostat controlled block heater
 - One (1) 120 °F block heater-proving switch
 - > One (1) 140 °F block thermostat
 - One (1) Air regulator
 - > One (1) Oil solenoid
 - One (1) Air solenoid
 - > One (1) Internally motor mounted centrifugal proving switch
 - > One (1) Air pressure proving switch
 - > One (1) Carlin # 41000B, 14,000 vac electric igniter
 - One (1) Carlin # 50200-02, 30 second safety timing, solid-state primary control with manual reset safety switch
 - One (1) Honeywell # C-554A cadmium sulfide flame sensor
 - > One (1) Single piece direct spark igniter
 - One (1) Thermostat controlled heated nozzle adapter
 - One (1) L-130 nozzle adapter thermostat
 - > One (1) 140 watt thermostat controlled nozzle heater
 - > One (1) Delavan 9-28 nozzle
 - One (1) 0-15 psig oil pressure gauge

- > One (1) 0-60 psig air pressure gauge
- > One (1) Run time hour meter
- > One (1) Green indicator light for power on indication
- > One (1) Amber indicator light for oil pump on indication
- 2.5

 USED-OIL FUEL SYSTEM: The CB-500-CTB Coil Tube Boil er is available with two choices of oil pumps that are both rated for use with used-oil applications. The pumps will have the following description:

Option #1 - Metering Pump Assembly

- One (1) Suntec model A2RA-7710 used-oil pump assembly with a 1/20th hp motor TENV, DP, PSC, sealed, ball bearing, cow-se rotation, 100 AC frame, parallel shaft, close coupled stud mounted, 3.42" diameter gear motor, with a 6 uf (mfd) / 250 vac capacitor
- > One (1) Oil pump relief valve assembly
- One (1) Lenz # DH750-100 canister filter with a washable 100-mesh stainless steel screen filter element
- > One (1) Oil vacuum gauge
- > One (1) 3/4" x 3/4" in-line brass check valve
- One (1) ¾" in-line washable 50-mesh stainless steel screen filter element for the check valve.

Option #2 - Pressure Style Pump Assembly

- > One (1) Suntec model J4NB-A1000G used-oil pump assembly with a 1/6th hp motor @ 1,725 rpm, TENV, DP, ball bearing, ccw-se rotation, 48 N frame, parallel shaft, close coupled, 7 ¼" bolt hole mount (center to center), 5 ½" diameter motor
- One (1) Lenz # DH750-100 canister filter with a washable 100-mesh stainless steel screen filter element
- > One (1) Oil vacuum gauge
- > One (1) 3/4" x 3/4" in-line brass check valve
- One (1) ¾" in-line washable 50-mesh stainless steel screen filter element for the check valve
- One (1) Oil regulator (used only on burners that use a 'J' pump)
- 2.5.1 The Suntec model A2RA-7710 used-oil pump assembly (option # 1) shall be installed as a suction fed only pump and it shall have a maximum vertical lift capa city of 6 feet of suction oil line plus a maximum of 4 feet of horizontal suction oil line.
- 2.5.2 The Suntec model A2RA-7710 used-oil pump assembly (option # 1) is not an adjustable pressure range pump. The gear motor is rated to deliver the correct amount of fuel per hour (3.57 gph) to the burner unit.
- 2.5.3 The Suntec model A2RA-7710 used-oil pump a ssembly (option #1) shall have a washable 234-micron stainless steel filter screen installed inside of the pump head. (Refer to the CB-500-CTB Operator's Manual for the proper installation of this pump.)
- 2.5.4 The suction oil line size for the Suntec model A2RA-7710 used-oil pump (option # 1) shall be ½" OD copper tubing from the used-oil tank to the pump.
- 2.5.5 The pressure oil line size for the Suntec model A2RA-7710 used-oil pump (option #1) shall be 3/8" OD copper tubing from the used-oil pump head to the burner unit with a maximum run of 100 felet of tubing. (Please note that some installations will allow for a greater pressure line length. Contact your Authorized Clean Burn Distributor for more information.)

- The Suntec model J4NB-A1000G used-oil pump assembly (option # 2) shall be installed 2.5.6 as a suction fed only pump and it shall have a maximum vertical lift capacity of 10 feet of suction oil line plus a maximum of 30 feet of horizontal suction oil line (not to exceed 10" Hg of vacuum). The Suntec model J4NB-A1000G use-oil pump (option #2) shall have an adjustable 2.5.7 pressure range of 20 to 40 psig. The Suntec model J4NB-A1000G use-oil pump (option # 2) shall have a washable 2.5.8 234-micron stainless steel filter screen installed inside of the pump head. (Refer to the CB-500-CTB Operator's Manual and J-Pump Installer's Manual for the proper installation of this pump.) The suction oil line size for the Sunte c model J4NB-A1000G use-oil pump (option #2) 2.5.9 shall be ½" OD copper tubing running from the used-oil tank to the pump head. The pressure oil line size, from the used-oil pump head to the burner unit, for the Suntec 2,5,10 model J4NB-A1000G use-oil pump (option # 2) shall be 3/8" OD copper tubing if less than 75' and 1/2" OD copper tubing if it is 75' to a maximum of 150'. All of the Clean Burn u sed-oil fuel supply units are designed to be u sed as one-pipe 2.5.11 suction fed pump system. tt is re commended that the used-oil be supplied from an inside tank for the best 2.5.12 performance and operation of the appliance. It is recommended that when u sing an outside above ground tank or a n outside below 2.5.13 ground tank that you in stall a "day tan k" inside of the building and a pumping transfer system for the best performance and operation of the appliance. The used-oil pump assembly shall be mounted above the oil tank and be as close to the 2.5.14
- top of the tank as possible.
- When installing more than one appliance into the building each appliance shall have its 2.5.15 own used-oil pump assembly for each burner.
- A return line from the pump to the tank is not required. However, with the metering pump 2.5.16 assembly (option #1) there is a relief valve assembly on the outlet of the pump head that requires a return line to the tank.
- The used-oil pump assembly shall be a close coupled gear type pump. 2,5,17
- STACK: The CB-500-CTB requires one 10" 24-gauge galvanized sheet metal stack off 2.6 of the back of the appliance. The stack c an be installed on either one of the two stack breech openings off of the back of the appliance. The un-used stack breeching must be capped off with the 10" 24-gauge galvanized sheet metal cap that is included with the appliance.
- The appliance includes one Field Type 'M' 9" barometric damper. This damper shall be 2.6.1 installed in the exhaust stack leaving the appliance and be installed within 3 to 5 feet of the breeching outlet as per the Codes and Regulations that are listed in Part 1 - Sections 1.4 through 1.4.4 of this bid specification as applicable.
- This barometric damper shall be adjusted to maintain a natural draft over-the-fire of -.02" 2.6.2 W.C. to a -.04" W.C. and a stack draft of -.04" W.C. to -.06" W.C. at all times.

- 2.6.3 All other stack materials needed to install this appliance shall be the responsibility of the installer.
- 2.6.4 Single wall stack can be used on the appliance on the inside of the building only. Where single wall stack can be used it must be 24-gauge galvanized sheet metal only as per the Codes and Regulations that are listed in Part 1 Section 1.4 through 1.4.4 of this bid specification as applicable.
- 2.6.5 DO NOT US E Type 'B' or 'BW' Vent which is a non-insulated double walled stack approved for LP and natural gas fired a ppliances only as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.6.6 DO NOT USE Type 'L' Vent whi ch is a non-insulated double walled stack approved for some #2 fuel oil and pellet burning appliances only as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.6.7 DO NOT USE the black decorative style of vent which is a single wailed stack approved for solid-fuel burning appliances only as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- Where any penetration of a floor, a wall, through the ceiling, into an attic space, where people may brush against the outside surface of the stack, or when you run any stack on the exterior of the building, you shall use an all-fuel pipe material that meets UL Standard 103 Type HT pipe requirements as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 2.6.9 Stack that is installed and used for this penetration protection of the building, shall be rated for a chimney temperature suitable for use at 1,000 °F, and shall be tested to the UL Standard 103 Type HT pipe requirement as per the Codes and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- The all-fuel /UL 103 Type HT double walled insulated stack with stainless steel inner core is available through the local CI ean Burn Distributor. (Refe r to the CB-500-CTB Operator's Manual for the proper way to in stall the stack, and when to use single wall stack and when you must use the all-fuel /UL 103 Type HT double walled insulated stack.)

PART 3 - ADDITIONAL INFORMATION

- 3.1 GENERAL: The in stallation of this appliance shall be mad e in accordance with the manufacturers' instructions, as well as in accordance with all Federal, State, Regional, or Local Laws and / or Regulations acceptable to the Authority Having Jurisdiction (AHJ) and shall be accomplished only by a qualified, certified, and competent heating technician experienced in making such installations as per NFPA 31, Chapter 4, Sections 4.3.2 and 4.3.3 and the Code's and Regulations that are listed in Part 1 Sections 1.4 through 1.4.4 of this bid specification as applicable.
- 3.1.1 Installation, operation, and maintenance permits may be required by the Authority Having Jurisdiction (AHJ). It is the responsibility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- Installation inspections of the finished job may also be required by the Authority Having Jurisdiction (AHJ). It is the responsi bility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- On-site certification of the appliance may be required by the Authority Having Jurisdiction (AHJ). It is the re sponsibility of the purch aser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.
- 3.1.4 All appliances shall be tested and installed in accordance with the Codes and Regulations that are listed in Part 1 Section s 1.4 through 1.4.4 of this bid specification as applicable.
- 3.1.5 All materials utilized in the installation shall be in strict accordance with the Codes and Regulations that are listed in Part 1 Section s 1.4 through 1.4.4 of this bid specification as applicable and shall be new and of the best grade and quality.
- 3.1.6 The bidder must have local service capability to provide on-site service.
- 3.1.7 The bidder must have current autho rization from Clean Burn, LLC. to provid e warranty service.
- OPERATOR MANUALS: Ea ch appliance comes with one complete CB-500-CTB Operator's Manual included inside of the appliance at time of shipping. Clean Burn, LLC will supply up to four add itional CB-500-CTB Operator's Manuals at no charge for the bidding purpose. If more copies of CB-500-CTB Operator's Manuals are required, they can be ordered through the local Clean Burn Distributor.

PART 4 - WARRANTY

WARRANTY INFORMATIOIN: Clean Burn, LLC shall warrant the CB-500-CTB Coil
Tube Boiler and all other Clean Burn products to be free from defects in material and
workmanship under normal use according to the provisions and limitations set in the
Operator's Manual for a period of one year from the date of p urchase by the original
purchaser.

Clean Burn, LLC warrants the burner and Coil Tube Boiler for a period of one (1) year from the date of purchase by the original purchaser. The steel coil tube section of the boiler only shall carry a limited warranty for a period of three (3) years from the date of purchase by the original purchaser.

- 4.1.1 The coil tube of the appliance shall carry a limited warranty for a period of three years from the date of purchase by the original purchaser.
- 4.1.2 The customer shall be responsible for all freight charges incurred for any replacement parts of ap pliance cabinets shipped to either the Clean Burn Distributor or to the customer during the covered warranty period.
- 4.1.3 A complete warranty covering this appliance can be found inside the front cover of the CB-500-CTB Operator's Manual.
- 4.1.4 Clean Burn, LLC does not warrant any labor for the installation of any failed parts, the labor for the removal and re-installation of the appliance cabinet for any repairs done to the appliance or for the total replacement of the cabinet, or any labor for repairs done to the appliance during the warranty period.
- 4.1.5 Clean Burn, LLC is not responsible for any freight or expenses that may be required to ship any repair parts or replacement cabinets to either the Clean Burn Distributor or to their customers.
- 4.1.6 No other warranty, verbal, implied, or written shall be honored by Clean Burn, LLC unless it comes directly from Clean Burn's Director of Field Engineering & Technical Support in written form with all parties notified as to the changes and / or additions in the warranty.



ANALYTICAL REPORT

Lab Number:

L2260252

Client:

Barton & Loguidice

11 Centre Park Drive Rochester, NY 14614

ATTN:

Dave Hanny

Phone:

(585) 325-7190

Project Name:

METALLICO PITTSBURGH

Project Number:

1206.018.013

Report Date:

11/10/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name:

METALLICO PITTSBURGH

Project Number:

1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

Alpha Sample ID

Sample ID L2260252-01

Client ID PITT WO Matrix

OIL

Sample Location

NEVILLE ISLAND

Collection Date/Time

Receive Date

10/26/22 15:45 10/27/22

Project Name:

METALLICO PITTSBURGH

Project Number:

1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name: Project Number:

METALLICO PITTSBURGH

1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Ash analysis was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Total Metals

The WG1708747-1 Method Blank, associated with L2260252-01, has a concentration above the reporting limit for arsenic. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B". The WG1708747-2 LCS recovery, associated with L2260252-01, is above the acceptance criteria for chromium (178%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1708747-3 MS recovery, performed on L2260252-01, is outside the acceptance criteria for chromium (237%). A post digestion spike was performed and was within acceptance criteria.

Flash Point

L2260252-01: Due to minimal sample volume received, analysis could not be performed with the correct sample volume specified by the method and the result should be considered invalid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Contin Walker Cristin Walker

Authorized Signature:

Title: Technical Director/Representative

Date: 11/10/22



ORGANICS



PCBS



L2260252

Lab Number:

METALLICO PITTSBURGH

Report Date: 11/10/22 **Project Number:** 1206.018.013

SAMPLE RESULTS

10/26/22 15:45 Date Collected: Lab ID: L2260252-01

10/27/22 Date Received: Client ID: PITT WO **Not Specified** Field Prep: **NEVILLE ISLAND** Sample Location:

Sample Depth:

Project Name:

Extraction Method: EPA 3580A Oil Matrix: **Extraction Date:** 11/08/22 15:26 1.8082A Analytical Method:

EPA 3665A Cleanup Method: 11/09/22 01:10 Analytical Date: 11/08/22 Cleanup Date:

ER Analyst: **EPA 3660B** Cleanup Method: Results reported on an 'AS RECEIVED' basis. Percent Solids: 11/08/22 Cleanup Date:

MDL Column RL **Dilution Factor** Result Qualifier Units **Parameter** Polychlorinated Biphenyls by GC - Westborough Lab 2.74 0.406 1 Α ND mg/kg Aroclor 1016 0.458 1 Α 2.74 ND mg/kg Aroclor 1221 2.74 0.970 1 Α ND mg/kg Aroclor 1232 0.617 1 Α 2.74 Aroclor 1242 ND mg/kg 0.686 1 Α 1.83 ND mg/kg Aroclor 1248 2.74 0.500 1 Α ND mg/kg Aroclor 1254 Α 1.83 0.845 1 ND mg/kg Aroclor 1260 0.915 0.581 1 Α ND mg/kg Aroclor 1262 0.915 0.474 1 Α Aroclor 1268 ND mg/kg 0.915 0.406 1 Α ND mg/kg

Surrogate	% Recovery Q	Acceptance ualifier Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102	30-150	В
Decachlorobiphenyl	94	30-150	В
2,4,5,6-Tetrachloro-m-xylene	102	30-150	Α
Decachlorobiphenyl	94	30-150	Α

PCBs, Total

Project Name:

METALLICO PITTSBURGH

Lab Number:

L2260252

Project Number:

1206.018.013

Report Date:

11/10/22

Method Blank Analysis Batch Quality Control

Analytical Method:

1,8082A

Analytical Date:

11/09/22 00:44

Analyst:

ER

Extraction Method: EPA 3580A

Extraction Date:

11/08/22 15:26

Cleanup Method: Cleanup Date:

EPA 3665A 11/08/22

Cleanup Method: Cleanup Date:

EPA 3660B 11/08/22

Parameter	Result	Qualifier	Units		RL	MDL	Column
Polychlorinated Biphenyls by GC	- Westboroug	h Lab for s	ample(s):	01	Batch:	WG1709661-	1
Aroclor 1016	ND		mg/kg	2	2.76	0.409	Α
Aroclor 1221	ND		mg/kg	2	2.76	0.462	Α
Aroclor 1232	ND		mg/kg	2	2.76	0.976	Α
Aroclor 1242	ND		mg/kg	2	2.76	0.621	Α
Aroclor 1248	ND		mg/kg	•	1.84	0.691	Α
Aroclor 1254	ND		mg/kg	2	2.76	0.504	Α
Aroclor 1260	ND		mg/kg	•	1.84	0.851	Α
Aroclor 1262	ND		mg/kg	0	.921	0.585	Α
Aroclor 1268	ND		mg/kg	0	.921	0.477	Α
PCBs, Total	ND		mg/kg	0	.921	0.409	Α

		Α	cceptanc	e
Surrogate	%Recovery Q	ualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	В
Decachlorobiphenyl	78		30-150	В
2,4,5,6-Tetrachloro-m-xylene	73		30-150	Α
Decachlorobiphenyl	86		30-150	Α



Lab Control Sample Analysis Batch Quality Control

Project Name:

METALLICO PITTSBURGH

Project Number: 1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

	LCS	LCSD		6Recovery			RPD	
Parameter	%Recovery Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - W	/estborough Lab Associated sample(s)	: 01 Batch:	WG1709661-2	WG1709661-3				
Aroclor 1016	92	98		40-140	6	85	50	Α
Aroclor 1260	83	90		40-140	8		50	Α

Surrogate	LCS	LCSD	Acceptance
	%Recovery Qual	%Recovery Qual	Criteria Column
2,4,5,6-Tetrachloro-m-xylene	82	89	30-150 B
	88	96	30-150 B
Decachlorobiphenyl 2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl	84	91	30-150 A
	97	101	30-150 A

METALS



Project Name:

METALLICO PITTSBURGH

Lab Number:

L2260252

Project Number:

1206.018.013

Report Date:

11/10/22

Lab ID:

L2260252-01

Date Collected:

10/26/22 15:45

Client ID:

PITT WO

Date Received:

10/27/22

Sample Location:

NEVILLE ISLAND

Field Prep:

Not Specified

Sample Depth:

Matrix:

Oil

Percent Solids:

Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Arsenic, Total	0.921	JB	mg/kg	1.49	0.310	1	11/07/22 19:3	9 11/08/22 21:50	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	1.49	0.146	1	11/07/22 19:3	9 11/08/22 21:50	EPA 3050B	1,6010D	DHL
Chromium, Total	0.563	J	mg/kg	1.49	0.143	1	11/07/22 19:3	9 11/08/22 21:50	EPA 3050B	1,6010D	DHL
Lead, Total	0.611	J	mg/kg	7.46	0.400	1	11/07/22 19:3	9 11/08/22 21:50	EPA 3050B	1,6010D	DHL

SAMPLE RESULTS



Project Name:

METALLICO PITTSBURGH

Lab Number:

L2260252 11/10/22

Project Number: 1206.018.013

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mans	field Lab for sample(s):	01 Batch	: WG1	708747-	1				
Arsenic, Total	1.43	mg/kg	1.00	0.208	1	11/07/22 19:39	11/08/22 19:36	1,6010D	DHL
Cadmium, Total	ND	mg/kg	1.00	0.098	1	11/07/22 19:39	11/08/22 19:36	1,6010D	DHL
Chromium, Total	ND	mg/kg	1.00	0.096	1	11/07/22 19:39	11/08/22 19:36	1,6010D	DHL
Lead, Total	ND	mg/kg	5.00	0.268	1	11/07/22 19:39	11/08/22 19:36	1,6010D	DHL

Prep Information

Digestion Method:

EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name:

METALLICO PITTSBURGH

Project Number:

1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Quai	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated	sample(s): 01 Batch: '	WG17087	' 47-2					
Arsenic, Total	114		-		79-121	-		
Cadmium, Total	108		-		83-117	-		
Chromium, Total	178	Q	-		80-120	-		
Lead, Total	101		-		81-117	-		

Matrix Spike Analysis Batch Quality Control

Project Name: METALLICO PITTSBURGH

Project Number: 1206.018.013

Lab Number: L2260252

Report Date: 11/10/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield La	b Associated sam	ple(s): 01	QC Batch	ID: WG170874	7-3	QC Sample	: L2260252-01	Clien	ID: PITT	WO		
Arsenic, Total	0.921JB	35.7	38.9	109		-	•		75-125	-		20
Cadmium, Total	ND	15.8	16.7	106		-	•		75-125	-		20
Chromium, Total	0.563J	59.5	141	237	Q	-	-		75-125	-		20
Lead, Total	0.611J	158	158	100		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: METALLICO PITTSBURGH

Project Number: 1206.018.013

h Quality Control

Lab Number: L2260252

Report Date: 11/10/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG1708	3747-4 QC Sample:	L2260252-01	Client ID:	PITT WO	
Arsenic, Total	0.921JB	0.915J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	0.563J	0.554J	mg/kg	NC		20
Lead, Total	0.611J	0.539J	mg/kg	NC		20

INORGANICS & MISCELLANEOUS



Project Name: METALLICO PITTSBURGH

Project Number: 1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

SAMPLE RESULTS

Lab ID:

L2260252-01

Client ID:

PITT WO

Sample Location: NEVILLE ISLAND

Date Collected: Date Received: 10/26/22 15:45

Field Prep:

10/27/22 Not Specified

Sample Depth:

Matrix:

Oil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								Heren William	
Flash Point	>150		deg F	70	NA	1	-	11/10/22 04:00	1,1010A	MRM



Lab Control Sample Analysis Batch Quality Control

Project Name:

METALLICO PITTSBURGH

Project Number: 1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

Parameter	LCS %Recovery	Qua	LCSD I %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	01	Batch: WG1710358-					
Flash Point	100		-		96-104	-		

METALLICO PITTSBURGH

Lab Number: L2260252

Report Date: 11/10/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Project Number: 1206.018.013

Project Name:

Cooler

Custody Seal

C

Absent

Container Information		Initia		Initial Final				Frozen		
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2260252-01A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		2.5	Υ	Absent		AS-TI(180),CR-TI(180),PB-TI(180),CD-TI(180)	
L2260252-01B	Glass 60mL/2oz unpreserved	С	NA		2.5	Υ	Absent		FLASH(),PCB-8082LL(365)	
L2260252-01C	Amber 250ml unpreserved	С	NA		2.5	Y	Absent		SUB-PERCENT ASH(),SUB-PERCENT WATER(28)	
L2260252-01D	Amber 1000ml unpreserved	С	NA		2.5	Υ	Absent		FLASH(),PCB-8082LL(365)	
L2260252-01E	Plastic 950ml unpreserved	С	NA		2.5	Υ	Absent		ARCHIVE()	

Project Name:

METALLICO PITTSBURGH

Lab Number:

L2260252

Project Number:

1206.018.013

Report Date:

11/10/22

GLOSSARY

Acronyms

LOD

MS

RPD

SRM

- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when DL. those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated EDL values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an EMPC analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of LCS

analytes or a material containing known and verified amounts of analytes.

- Laboratory Control Sample Duplicate: Refer to LCS. LCSD

- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of LFB

analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated **MDL** values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated

using the native concentration, including estimated values.

- Matrix Spike Sample Duplicate: Refer to MS. MSD

NA - Not Applicable.

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's NC

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil NP

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR

Organic TIC only requests.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples

- Semi-dynamic Tank Leaching Procedure per EPA Method 1315. STLP

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. TEF

- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF TEO

and then summing the resulting values. - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound TIC

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:METALLICO PITTSBURGHLab Number:L2260252Project Number:1206.018.013Report Date:11/10/22

Footnotes

The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benza(b)fluoranthene, Benza(j)+(k)fluoranthene, Benza(e)pyrene, Benza(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benza(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- -The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted
 analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an
 estimated maximum concentration.
- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference
- -Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

Identified Compounds (TICs).

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ -Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where
 the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z -The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name:

METALLICO PITTSBURGH

Project Number: 1206.018.013

Lab Number:

L2260252

Report Date:

11/10/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.: 17873 Revision 19

Published Date: 4/2/2021 1:14:23 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene;

4-Ethvltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg.

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

FAX 588-872388 Project Location: Notice School Project (4 File) Project Location: Notice School Project (4 File) Project (4 Fi	Дерна	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coo	ay	5	Page	}		Date I	Rec'd	10	128	h	7		ALPHA JOB #	1
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Form No: 01-25 HC (rev. 30-Sept-2013) (See reverse si											_					(See reverse side.)	

Federal Requirements.

- 1. All solid waste combustion emissions and operating standards and operator training programs promulgated or developed by the Administrator under Sections 111 and 129 of the Clean Air Act are hereby incorporated by reference into this Article. Additions, revisions, or deletions to the standards and programs adopted by the Administrator are incorporated into this Article and are effective on the date established by the Federal standards and programs, unless otherwise established by regulation under this Article.
- No person shall operate, or allow to be operated, any incinerator in such manner as to violate any of the applicable provisions of Paragraph 1 of this Subsection
- g Measurements. Measurements of afterburner temperatures, particulate emissions, and visible emissions shall be conducted according to the procedures set forth in Part G of this Article.

§2105.31 WASTE-DERIVED LIQUID FUEL

[Paragraphs 6.7 & e.6 restared May 7, 1998, effective May 13, 1998]

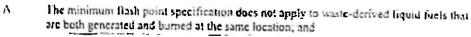


Fuel Specifications. Specification fuel shall comply with the following fuel specifications, and all specifications in this Subsection that are defined in parts per million or percentage are by weight:

For all equipment subject to this Section:

Assenia	ว์	ppm	maxiotum
Cadmium	2	ppm	
Chramium	10		maximum
Lead		bbur	maxidium
PCR's	106	bbm.	masimum
	5	ppen	maximum
Ash	0.3	54	maximum
Bottom Sediment and Water	2.0	10	maximum
Flash Point	001	degrees F	muminimum

except:





The maximum allowed ask content is 1.2% for fuel-burning or combustion space heaters with a rated heat input of 500,000 BTU per hour or less.

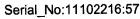
For equipment subject to Subparagraph 6.A of Subsection b of this Section:

Tartes	1.600		
Total Halogens	1,000	ppm	maximum
Heat of Combustion	8,000	BTUMb.	muminim

For equipment subject to Subparagraph 6.B of Subsection b of this Section:

Total Halogens	1,000	ppm	maximum
Heat of Combustion	8,000	BTUIL	minimum

ACHD Article XXI





Sterling Analytical, Inc.

15 Agawam Avenue West Springfield, MA 01089 Phone (413) 214-6541 Fax (413) 214-6842

Visit our website: www.sterlinganalytical.com

Report Date November 3, 2022

Customer	Contact	Laboratory Supervisor	eMail
Alpha Analytical Lab	M. Deyo	Dale Percoski	customerservice@sterlinganalytical.com
Sample Description Analysis of Oil Sample	•		

mples Analyzed	_							
Enclosed are Report No(s): 78380								

Thank you for your business

Dale Percoski	11/3/2022
Dale Percoski, Laboratory Supervisor	Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.

This report may not be reproduced, except in full, without written approval from Sterling Analytical, Inc.

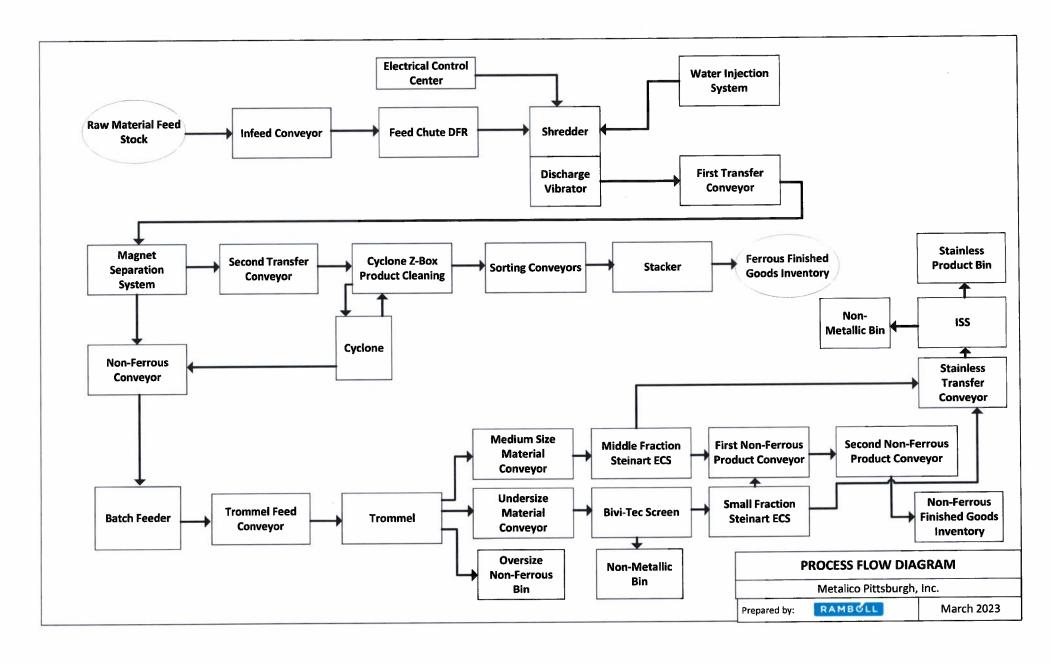
Visit our website: www.sterlinganalytical.com

Sample Analysis

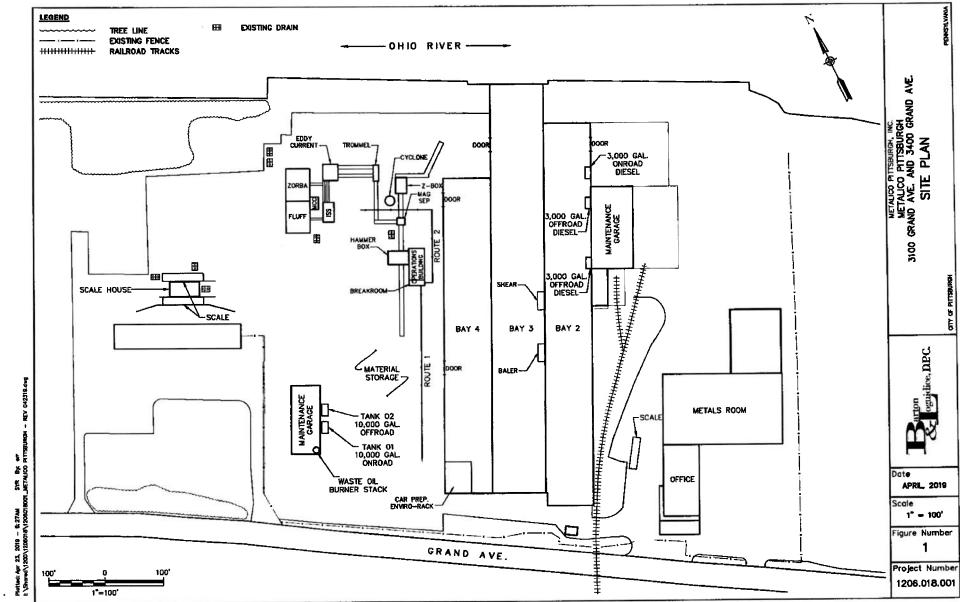
Work Order 22-1119

Sample Description		Source	Taken/Ti	ime	Received
78380 L2260252 PITT WO		Alpha Analytical Lab	10/26/22	15:45	10/31/22
Parameter		Results	RDL Method	Analyz	zed/Time_Tech_
Ash,%		0.87	0.10 ASTM D482	11/01/2	22 sjr
Water. % (by volume)	Less Than	0.02	0.02 ASTM D95	11/01/2	22 sjr

APPENDIX E Process Flow Diagram



APPENDIX F Area Map



APPENDIX G USEPA Consent Order

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

Philadelphia, Pennsylvania 19103-2029

In the Matter of:

:

:

U.S. EPA Docket No. CAA-03-2023-0016DA

METALICO PITTSBURGH, INC. 3100 GRAND AVENUE PITTSBURGH, PA 15225

Administrative Order On Consent

Pursuant to Section 113(a)(1) and (4) of the

Respondent.

Clean Air Act, 42 U.S.C. § 7413(a)(1) and (4)

CERTIFICATE OF SERVICE

I certify that the foregoing Administrative Order on Consent was filed with the EPA Region III Regional Hearing Clerk on the date that has been electronically stamped on the Administrative Order on Consent. I further certify that on the date set forth below, I caused to be served a true and correct copy of the foregoing Administrative Order on Consent to each of the following persons, in the manner specified below, at the following addresses:

Copies served via email to:

Michael Drury, President and CEO Metalico Pittsburgh, Inc. 3100 Grand Avenue Pittsburgh, PA 15225 mdrury@metalico.com Michael H. Winek, Esq. Babst Calland Two Gateway Center Pittsburgh, PA 15222 mwinek@babstcalland.com

Humane Zia Senior Assistant Regional Counsel U.S. EPA, Region III zia.humane@epa.gov Erin M. Willard Environmental Scientist U.S. EPA, Region III willard.erinm@epa.gov

BEVIN ESPOSITO

Digitally signed by BEVIN ESPOSITO Date: 2023.01.19 16:00:04 -05'00'

[Digital Signature and Date]

Bevin Esposito Regional Hearing Clerk U.S. Environmental Protection Agency, Region III



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

FOUR PENN CENTER – 1600 JOHN F. KENNEDY BLVD. PHILADELPHIA, PENNSYLVANIA 19103

Via E-Mail to mdrury@metalico.com

Michael Drury, President and CEO Metalico Pittsburgh, Inc. 3100 Grand Avenue Pittsburgh, PA 15225

Re: Clean Air Act - Administrative Compliance Order on Consent

In the Matter of: Metalico Pittsburgh, Inc. Docket No. CAA-03-2023-0016DA

Dear Mr. Drury:

Attached is an Administrative Compliance Order on Consent ("Consent Order") that the United States Environmental Protection Agency ("EPA") is issuing to Metalico Pittsburgh, Inc. ("Metalico"). EPA is issuing this Consent Order to Metalico pursuant to its authority under Section 113(a) of the Clean Air Act ("CAA" or the "Act'), 42 U.S.C. § 7413(a), for Metalico's alleged violation of CAA Section 113(a)(1), 42 U.S.C. § 7413(a)(1), and requirements of the federally enforceable PA SIP, at its metal scrap shredding facility located at 3100 Grand Avenue, on Neville Island, Pittsburgh, Allegheny County, PA 15225 (the "Facility"). The attached Consent Order is effective immediately upon your receipt and requires immediate compliance with the requirements as stated in the Consent Order. Any violation of this Consent Order is subject to civil penalties under Section 113(b)(2) and (d)(1) of the Act, 42 U.S.C. §§ 7413(b)(2) and 7413(d)(1).

As noted above, the attached Consent Order takes effect immediately upon your receipt, whereupon it will remain in effect unless and until terminated in accordance with the requirements of Section I (Termination) therein. For any questions relating to the Consent Order, please contact, or have your legal counsel contact Humane Zia, Sr. Assistant Regional Counsel, at (215) 814-3454 or zia.humane@epa.gov.

Sincerely,

KAREN MELVIN Digitally signed by KAREN MELVIN Date: 2023.01.19 09:44:23 -05'00'

Karen Melvin, Director

Enforcement and Compliance Assurance Division United States Environmental Protection Agency Region III

Attachment – Consent Order (Docket No. CAA-03-2023-0016DA)
cc: Allason Holt, ACHD <u>Allason.Holt@AlleghenyCounty.US</u>

Paul Arnold, EPA (arnold.paul@epa.gov)
A.J. D'Angelo, EPA (dangelo.aj@epa.gov)
U.S. EPA Region III Regional Hearing Clerk (R3 Hearing Clerk@epa.gov)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III Philadelphia, Pennsylvania 19103

In the Matter of:

: U.S. EPA Docket No. CAA-03-2023-0016DA

Metalico Pittsburgh, Inc.

Proceeding under Sections 113(a)(1) and (4)

3100 Grand Avenue :

of the Clean Air Act, 42 U.S.C. §§ 7413(a)(1)

Pittsburgh, PA 15225 : and (4)

:

Respondent.

ADMINISTRATIVE COMPLIANCE ORDER ON CONSENT

A. PRELIMINARY STATEMENT

- 1. This Administrative Compliance Order on Consent ("Order") is issued under the authority vested in the Administrator of the U.S. Environmental Protection Agency ("EPA") by Section 113(a) of the Clean Air Act (the "Act"), 42 U.S.C. § 7413(a).
- 2. The Administrator of the EPA delegated the authority to issue this Order under the CAA to the Regional Administrators. The Regional Administrator of the EPA Region III has redelegated this authority to the Director of the EPA Region 3 Enforcement and Compliance Assurance Division, pursuant to EPA Delegation 7-6A.
- 3. Respondent is a corporation doing business in the Commonwealth of Pennsylvania.

 Respondent is a "person" as defined in Section 302(e) of the Act, 42 U.S.C. § 7602(e).
- Respondent signs this Order for purposes of reaching an amicable settlement with the EPA.
- 5. In satisfaction of the notice requirements of Section 113(a) of the CAA, 42 U.S.C.
 § 7413(a), on October 4, 2021, the EPA issued to Respondent a Notice of Violation and
 Opportunity to Confer ("NOVOC") and provided a copy to the Allegheny County Health

Department ("ACHD"), providing notice that the EPA found that Respondent committed the alleged violations described in Section C of this Agreement and providing Respondent an opportunity to confer with the EPA. On December 2, 2021, representatives of Respondent and the EPA discussed the NOVOC.

B. STATUTORY AND REGULATORY BACKGROUND

- 6. The EPA alleges and adopts the Findings set forth immediately below.
- 7. The EPA is authorized by Section 113 of the Act, 42 U.S.C. § 7413, to take action to ensure that air pollution sources comply with all federally applicable air pollution control requirements. This includes requirements promulgated by the EPA and those contained in federally enforceable State Implementation Plans ("SIPs") or permits.
- 8. The term "applicable implementation plan" is defined in Section 302(q) of the Act, 42 U.S.C. § 7602(q).
- 9. The applicable implementation plan for the Commonwealth of Pennsylvania ("Pennsylvania SIP") is codified at 40 C.F.R. Part 52, Subpart NN.
- 10. The Pennsylvania SIP contains regulations from the Commonwealth of Pennsylvania's Air Pollution Control Act ("APCA"), including, but not limited to, Subchapter F (Operating Permit Requirements), 25 Pa. Code §§127.401-127.464, and the ACHD's Air Pollution Control Regulations governing the air resources in Allegheny County, known as Article XXI (hereinafter "Article XXI"), including, but not limited to, Part C (Operating Permits) Sections 2103.01-2103.15 and Section 2103.20.b.4. See, 40 C.F.R. § 52.2020(c)(2).
- 11. Title V of the CAA, 42 U.S.C. §§ 7661-7661f, establishes an operating permit program for major sources of air pollution.

- 12. Pursuant to Section 502(b) of the CAA, 42 U.S.C. § 7661a(b), the Administrator promulgated regulations providing for the establishment of Title V permitting programs at 40 C.F.R. Part 70.
- 13. Section 502(d) of the CAA, 42 U.S.C. § 7661a(d), directs each state to develop a permit program under state or local law that meets the requirements of Title V of the CAA for review and approval by EPA. Once approved by EPA, the state air pollution control agency is authorized to administer its own Title V operating permit program.
- 14. Section 502(e) of the CAA, 42 U.S.C. § 7661a(e), authorizes EPA to retain the authority to enforce Title V operating permits issued by a state.
- 15. EPA approved the Pennsylvania Department of Environmental Protection's ("PADEP's") request on behalf of the Allegheny County Health Department for ACHD to implement the operating permit program as the permitting authority and issue operating permits pursuant to 40 C.F.R. Part 70, for sources of air pollutants within its Allegheny County geographic jurisdiction, effective December 17, 2001. *See*, 66 Fed. Reg. 55,112 (Nov. 1, 2001).
- 16. Section 502(a) of the CAA, 42 U.S.C. § 7661a(a), and EPA's regulations at 40 C.F.R. § 70.7(b), prohibit the operation of a major source except in compliance with a permit issued by a permitting authority under Title V of the CAA. See also, 35 P.S. § 4006.1(b)(1).
- 17. Pursuant to ACHD Article XXI Section 2103.10.b., no source located within Allegheny County may be operated or allowed to operate except in compliance with an Operating Permit issued under Article XXI Part C, Subpart 1 (§§ 2103.01-2103.15).

- 18. "Major source" is defined to include "any stationary source, or any group of stationary sources, that is located on one or more contiguous or adjacent properties, is under common control of the same person . . . and. . . (e) [f]or ozone transport regions established pursuant to Section 184 of the Clean Air Act, sources with the potential to emit, including fugitive emissions, 50 tpy or more of volatile organic compounds."

 Article XXI, § 2101.20.
- 19. "Title V facility" is defined, among other things, as "[a] major stationary source as defined in Title I, Part D of the Clean Air Act (42 U.S.C. §§ 7501-7515), including: (B) [f]or ozone transport regions established under section 184 of the Clean Air Act (42 U.S.C. § 7511c), sources with the potential to emit 50 tpy or more, of VOCs. . . . " 25 Pa. Code § 121.1.
- 20. The Commonwealth of Pennsylvania is included within the ozone transport region established under CAA Section 184(a), 42 U.S.C. § 7511c(a).
- 21. Potential to emit ("PTE") is defined as "the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by [EPA] and citizens under the Clean Air Act." ACHD Article XXI, § 2101.20.
- 22. Pursuant to the provisions of ACHD Article XXI, Section 2103.20.b.4., a facility whose PTE exceeds the major source threshold for a regulated pollutant such as the 50 tons per year ("TPY") threshold for VOCs may, in lieu of applying for and obtaining a Title V

operating permit, properly submit to ACHD a Synthetic Minor permit application with enforceable conditions as a restriction on its PTE, provided that the facility must be in compliance at all times, during the review of the permit application and the term of the permit, with such enforceable conditions.

23. A "synthetic minor source" is an air contamination source subject to Federally enforceable conditions limiting the source's potential to emit to less than the major source thresholds specified in the definition of 'major source,' including, but not limited to, 50 TPY for VOCs. See, ACHD Article XXI, § 2101.20; 25 Pa. Code § 121.1.

C. FINDINGS

- 24. Respondent is the owner and operator of a metal scrap shredding facility (SIC Code 5093), located at 3100 Grand Ave. on Neville Island, Pittsburgh, Allegheny County, PA 15225 (hereinafter "the Facility").
- 25. Metal shredding operations began at the Facility in about November 2004, under the ownership of Respondent's predecessor, Neville Metals, LLC and Neville Recycling, LLC. In approximately May 2008, Respondent acquired the operations of the Facility.
- 26. At all times relevant to the violations alleged herein, the Facility operations have included the operation of a hammer-mill shredder ("Shredder") to process ferrous materials, including scrap motor vehicles ("end of life vehicles" or "ELVs"), appliances and other scrap metal, for recycling and ultimate resale to steel manufacturers.
- 27. A Minor Source Operating Permit #0692 was issued for the Facility by ACHD on August 21, 2007 ("Minor Source Permit #0692"). At the time of issuance, Minor Source Permit #0692 did not include any enforceable limitation on the Shredder's allowable annual hours of operation.

- 28. ACHD Minor Source Permit #0692 (Section IV, Condition 4) requires that the Facility "shall not conduct, or allow to be conducted, any material handling operation in such manner that emissions from such operation are visible at or beyond the property line," pursuant to Article XXI, Section 2104.05. Article XXI, Section 2104.05 was approved by EPA as part of the PA SIP on November 14, 2002. 67 Fed. Reg. 68,935 (Nov. 14, 2002).
- 29. ACHD Minor Source Permit #0692 (Section IV, Condition 20) requires that "[n]o person shall transport, or allow to be transported, any solid or liquid material outside the boundary line of any source for which a permit is required by Article XXI Part C [Operating Permits] in such manner that there is any visible emission, leak, spill, or other escape of such material during transport," pursuant to Article XXI, Section 2105.43.

 Article XXI, Section 2105.43 was approved by EPA as part of the PA SIP on November 14, 2002. 67 Fed. Reg. 68,935 (Nov. 14, 2002).
- 30. On August 8, 2018, EPA conducted a CAA inspection ("Inspection") at the Facility to verify its compliance with applicable State and Federal regulations.
- 31. By a letter dated October 31, 2019, EPA issued to Respondent a Notice of Noncompliance/Opportunity to Show Cause, describing potential violations of the PA SIP and the CAA at the Facility identified by EPA after further investigation of the Facility's operations following the Inspection.
- 32. The EPA has collected performance test data from scrap metal shredding facilities located across the United States, with feedstocks and feed rates comparable to the Respondent's Facility. Between November 2019 and September 2020, EPA provided to Respondent the emission values used by EPA to evaluate the Facility's potential to emit VOCs and compliance with applicable CAA requirements.

- 33. Based on these performance tests' data and Respondent's maximum operational capacity of the Facility's Shredder, the EPA has determined that without federally enforceable operational limitations, such as the Shredder Operational Limitations described in Section D of this Order, the Facility has a PTE more than 50 TPY VOC.
- 34. Respondent submitted to ACHD an application for a Synthetic Minor Permit for the Facility on October 31, 2019, and a revised application for a Synthetic Minor Permit on January 11, 2021. Based on EPA's review and information, neither of Respondent's applications for a Synthetic Minor Permit contained sufficient operational limitations and enforceable conditions, including, but not limited to, the use of an appropriate VOC emissions factor to calculate its potential to emit VOCs.
- 35. On October 4, 2021, EPA issued to Respondent an NOVOC describing violations identified by EPA, including Metalico's operation without a Title V Operating Permit and its alleged failure to conduct its material handling operations in accordance with the Facility's August 21, 2007 Minor Source Permit #0692.
- 36. On December 2, 2021, EPA met with Respondent to discuss the NOVOC and options to resolve the alleged violations described therein.
- 37. The EPA asserts that Respondent's Facility has a PTE more than 50 TPY VOCs and that Respondent was required to either (1) apply for and obtain a Title V Operating Permit in accordance with Section 502 of the CAA, 42 U.S.C. § 7661a(a) and 25 Pa. Code § 127.502, or (2) apply for and obtain a Synthetic Minor Operating Permit, in accordance with ACHD Article XXI, Section 2103.20.b.4, with enforceable conditions on its Facility operations, including, but not limited to, the use of an appropriate VOCs emission factor with which to calculate its VOCs PTE from the Facility.

- 38. As of the date of this Order, Respondent continues to operate the Facility without a Title V Operating Permit or an appropriate Synthetic Minor Operating Permit in the alternative.
- 39. The EPA alleges that Respondent's failure to comply with Section 502 of the CAA, 42 U.S.C. § 7661a, and 25 Pa. Code § 127.502 constitutes a violation of the CAA that is subject to enforcement by EPA pursuant to Sections 113 of the CAA, 42 U.S.C. § 7413.
- 40. In failing to comply with the CAA, Respondent is subject to an administrative order under Section 113(a) of the CAA, 42 U.S.C. § 7413(a).
- 41. Based on the information currently available to the EPA, the Agency believes that the physical and/or operational limitations for the Facility's Synthetic Minor Operating Permit required in Paragraph 42 herein will ensure that the Facility maintains its potential to emit VOCs under the 50 TPY major source threshold pursuant to the CAA.

D. ORDER

42. Within sixty (60) days from the effective date of this Order, or by March 1, 2023, whichever is later, Respondent shall submit to the ACHD (for review and approval) and to EPA (for the Agency's information), a complete amended Permit Application for the Facility which requests ACHD's issuance of a CAA Synthetic Minor Permit ("Synthetic Minor Permit Application") containing the following limitations and conditions:

Shredder Operational Limitations:

a. Maximum hours of operation of 10 hours in any calendar day, or eight hours per day during Air Quality Action Days¹ as determined by ACHD;

¹ Air Quality Action Day is defined as: "a day for which a forecast, for Allegheny County, has been issued by the Pennsylvania Department of Environmental Protection, the Allegheny County Health Department or the Southwest Pennsylvania Air Quality Partnership indicating that ambient concentrations of ozone, particulate matter, carbon monoxide, sulfur dioxide, or nitrogen dioxide might reach unhealthful levels or exceed the National Ambient Air Quality Standards." Article XXI § 2101.20. Air Quality Action Day alerts from ACHD can be requested at www.alleghenycounty.us/alerts.

- b. Maximum shred feed rate of 120 ton/hour;
- c. Maximum throughput rate of 240,000 tons per year of shred feed;
- d. Maximum annual hourly operating limit, such that the Facility will not exceed a PTE of 50 TPY VOCs², inclusive of all other VOC emitting sources located at the Facility.
- e. An emission factor of 0.39 lb VOC per ton of shred feed (lb VOC/ton) shall be used for all VOC emissions calculations related to VOC emissions generated by the Facility Shredder.

Requirement to Record of Hours of Operation

- f. The total number of hours per day in which the Facility Shredder operates at an amperage draw equal to or greater than 200 amps³ shall be recorded using the Shredder's existing, or a functionally equivalent, amperage monitoring system. These recorded hours shall define the number of hours that the Shredder is emitting VOCs, for purposes of calculating annual VOC emissions from the Shredder.
 - i. The amperage monitoring system shall collect data before, during, and after the Shredder's operation at an amperage draw equal to or greater than 200 amps, for a minimum period of 12 hours/day. For example, if the Shredder's hours of operation are 7:00am to 3:30pm, the monitoring system could begin collecting data at 5:00am and cease collecting data at 5:00pm each day.
- g. The total number of hours per day in which the Shredder amperage is equal to or greater than 200³ amps shall be reported to ACHD in a manner and frequency proposed by the permittee for approval by ACHD.
- h. Data from the amperage monitoring system shall be maintained on a central server so that it can be accessed at both the Facility and Respondent's other offices, to provide to ACHD or EPA upon request.

Requirement to Document and Record Shredder Feed

i. A daily written record of the Facility's shredder feed shall be maintained, using both its scale house and product classification process, as assessed upon receipt of all materials arriving at the Facility.

² At the maximum shred feed rate of 120 tph, 240,000 tons/year correlates to 2,000 hours/year shredder operating hours. Metalico shall use the annual operating hours as a basis to ensure that the total quantity of VOC emissions at the Facility, including those from the Shredder and all other Facility sources, does not exceed the 50 TPY VOC limitation on potential to emit.

³ This 200 amp value represents the typical amperage draw when the Shredder is mechanically shredding material, therefore, these hours are presumed to be the hours that the unit is generating VOCs.

Requirement for Best Management Plan

- j. A Best Management Practices Plan ("BMP Plan") shall be submitted to ACHD annually following the date of submission of Respondent's amended Synthetic Minor Permit Application, for review and comment. The BMP Plan shall include, at minimum, the following elements, and shall describe how they will be implemented at the Facility:
 - i. Fire Prevention, including, but not limited to: use of an infrared ("IR") camera (or other temperature gauging equipment) to scan the Facility and scrap piles as a means of reducing the potential for fires; on-site trainings on the use of equipment and fire response; fire hydrant map and maintenance activities; and the use and installation of "water cannon" or other fire suppression systems;
 - ii. Visible Emissions Reduction, including, but not limited to, water suppression and other means to prevent dust and other visible emissions from leaving the Facility boundary;
 - iii. Vehicle Handling and Depollution, including, but not limited to, draining engine fluids and fuels, removing batteries and switches, and handling of electric vehicles (e.g., Toyota Prius, Tesla, etc.), if accepted for shredding by the Facility;
 - iv. Hazard Reduction, including, but not limited to, sorting and removal of pressurized tanks, handling of fuel-containing materials to minimize explosions in the shredder, and removal of lithium and other batteries.
- 43. Respondent shall submit to EPA and ACHD, within sixty (60) days from the effective date of this Order, or by March 1, 2023, whichever is later, a report of practices it currently conducts at the Facility to address fire prevention, visible emissions reduction, vehicle handling and depollution, and hazard reduction, as those activities are described in Paragraph 42.j. above.
- 44. For purposes of the identification requirement in Section 162(f)(2)(A)(ii) of the Internal Revenue Code, 26 U.S.C. § 162(f)(2)(A)(ii), and 26 C.F.R. § 162-21(b)(2), performance of Paragraphs 42-43 is restitution, remediation, or required to come into compliance with the law.

E. OTHER TERMS AND CONDITIONS

- 45. Respondent admits the jurisdictional allegations contained in this Order.
- 46. Respondent neither admits nor denies the findings in Section C (Findings) of this Order.
- 47. In the event that a force majcure event impacts the ability of Respondent to comply with the terms of the Order, Respondent shall contact the EPA at the earliest sign of potential non-compliance. For purposes of this Order, "force majeure" is defined as any event arising from causes beyond the control of Respondent, of any entity controlled by Respondent, or of Respondent's contractors, that delays or prevents the compliance of the terms of this Order despite Respondent's best efforts to fulfill its obligations. Increased costs or expenses associated with compliance, or a change in Respondent's economic circumstances does not constitute force majeure. Respondent shall identify how a force majeure was the cause of the non-compliance, and the decisions and actions taken in response, including best efforts to comply with the Order. The EPA and Respondent shall work cooperatively to mutually agree to a reasonable modification to the terms of the Order. Respondent shall act responsibly under the circumstances in order to minimize the duration of any non-compliance with the Order caused by a force majeure.

F. GENERAL PROVISIONS

48. Any violation of this Order may result in a civil administrative or judicial action for an injunction or civil penalties of up to \$109,024 per day per violation, or both, as provided in Sections 113(b)(2) and 113(d)(1) of the Act, 42 U.S.C. §§ 7413(b)(2) and 7413(d)(1), which reflects the appropriate Adjustment of Civil Monetary Penaltics for Inflation, pursuant to 40 C.F.R. Part 19, and the applicable EPA memoranda addressing EPA's civil penalty policies to account for inflation. Additionally, any violations of the Order

- may result in criminal sanctions as provided in Section 113(c) of the Act, 42 U.S.C. § 7413(c). The EPA may use any information submitted under this Order in an administrative, civil judicial, or criminal action.
- 49. Nothing in this Order shall relieve Respondent of the duty to comply with all applicable provisions of the Act or other federal, state or local laws or statutes, nor shall it restrict the EPA's authority to seek compliance with any applicable laws or regulations, nor shall it be construed to be a ruling on, or determination of, any issue related to any federal, state, or local permit.
- 50. Nothing herein shall be construed to limit the power of the EPA to undertake any action against Respondent or any person in response to conditions that may present an imminent and substantial endangerment to the public health, welfare, or the environment.
- 51. The provisions of this Order shall apply to and be binding upon Respondent and its officers, directors, employees, agents, trustees, servants, authorized representatives, successors, and assigns. From the Effective Date of this Order (Paragraph 55) until the Termination Date of this Order (Paragraph 57), Respondent must give written notice and a copy of this Order to any successors in interest prior to any transfer of ownership or control of any portion of or interest in the Facility. Simultaneously with such notice, Respondent shall provide written notice of such transfer, assignment, or delegation to the EPA. In the event of any such transfer, assignment, or delegation, Respondent shall not be released from the obligations or liabilities of this Order unless the EPA has provided written approval of the release of said obligations or liabilities.
- 52. Unless this Order states otherwise, whenever, under the terms of this Order, written notice or other document is required to be given, it shall be directed to the individuals

specified at the addresses below unless those individuals or their successors give notice of a change of address to the other party in writing:

Erin Willard, Environmental Scientist U.S. EPA, Region III, Enforcement and Compliance Assurance Division (3ED21) Willard.ErinM@epa.gov

Humane Zia, Senior Assistant Regional Counsel U.S. EPA Region IIII, Office of Regional Counsel (3RC30) Zia.Humane@epa.gov

Michael Drury, President and CEO Metalico Pittsburgh, Inc. 135 Dermody Street Cranford, NJ 07016 mjdrury@metalico.com

Kevin Whalen Metalico Pittsburgh, Inc. 135 Dermody Street Cranford, NJ 07016 kwhalen @metalico.com

All notices and submissions shall be considered effective upon receipt. Notices, documents, or submissions due to the EPA shall be sent via email to Willard.ErinM@epa.gov unless arrangements are otherwise made by contacting Ms. Willard via email.

53. To the extent this Order requires Respondent to submit any information to the EPA,
Respondent may assert a business confidentiality claim covering part or all of that
information, but only to the extent and only in the manner described in 40 C.F.R. Part 2,
Subpart B. The EPA will disclose information submitted under a confidentiality claim
only as provided in 40 C.F.R. Part 2, Subpart B. If Respondent does not assert a
confidentiality claim, the EPA may make the submitted information available to the
public without further notice to Respondent.

54. Each undersigned representative of the Parties certifies that he or she is authorized to enter into the terms and conditions of this Order to execute and bind legally the Parties to this document.

G. EFFECTIVE DATE AND OPPORTUNITY FOR A CONFERENCE

55. Pursuant to Section 113(a)(4) of the Act, an Order does not take effect until the person to whom it has been issued has had an opportunity to confer with the EPA concerning the alleged violations. By signing this Order, Respondent acknowledges and agrees that it has been provided an opportunity to confer with the EPA prior to issuance of this Order.

Accordingly, this Order will take effect immediately upon signature by the latter of Respondent or the EPA.

H. JUDICIAL REVIEW

56. Respondent waives any and all remedies, claims for relief and otherwise available rights to judicial or administrative review that Respondent may have with respect to any issue of fact or law set forth in this Order, including any right of judicial review under Section 307(b)(1) of the Clean Air Act, 42 U.S.C. § 7607(b)(1).

I. TERMINATION

- 57. This Order shall terminate on the earlier of the following (the "Termination Date") at which point Respondent shall operate in compliance with the Act:
 - a. One year after the Effective Date of this Order;
 - b. The effective date of any determination by the EPA that Respondent has achieved compliance with all terms of this Order; or

c. Immediately upon receipt by Respondent of notice from the EPA finding that an imminent and substantial endangerment to public health, welfare, or the environment has occurred.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION III** BEFORE THE ADMINISTRATOR

In the	Matter	of:
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Metalico Pittsburgh, Inc.

Respondent.

Administrative Compliance Order on Consent EPA Docket No. CAA-03-2023-0016DA

For United States Environmental Protection Agency, Region III:

KAREN MELVIN Digitally signed by KAREN MELVIN

Date: 2023.01.19 09:43:34 -05'00'

[digitally signed and dated] Karen Melvin Office of Enforcement and Compliance Assurance Division U.S. EPA, Region III (3ED00) Philadelphia, PA 19103

DECEMBER 9, 2022

Date

For Metalico Pittsburgh, Inc. :

Signature

Printed Name: Michael Drury
Title: President and CEO

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APPENDIX H Application Fee